

FEDERAL ITEM IDENTIFICATION GUIDE

DELAY LINES

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Commander
Defense Logistics Information Service
ATTN: DLIS-K
74 Washington Avenue North, Suite 7
Battle Creek, Michigan 49037-3084
(COMM) (269) 961-5779
(DSN) 661-5779

This Federal Item Identification Guide for Supply Cataloging is issued under the authority of Department of Defense Instruction 5025.7.

The use of this publication is mandatory for US. Federal Activities participating in Federal Catalog System Operations.

BY ORDER OF THE DIRECTOR

/s/

Commander

Defense Logistics Information Service

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GENERAL INFORMATION

1. Purpose and Scope

This Federal Item Identification Guide (FIIG) is a self-contained document for the collection, coding, transmittal, and retrieval of item characteristics and related supply management data for an item of supply for logistical use. This FIIG is to be used to describe items of supply identified by the index of approved item names appearing in this section.

2. Contents

This FIIG is comprised of the following:

- Index of Approved Item Names Covered by this FIIG
- Applicability Key Index
- Section I - Item Characteristics Data Requirements
- Section III - New text that should be here.
- Appendix A - Reply Tables
- Appendix B - Reference Drawing Groups (as applicable)
- Appendix C - Technical Data Tables (as applicable)

a. Index of Approved Item Names Covered by this FIIG:

The index lists the approved item names with definitions and item name codes as they appear in Cataloging Handbook H6, applicable to this FIIG. In addition, each name entry is assigned an applicability key for use in relating the characteristics requirements in Section I to the specific item name.

b. Applicability Key Index:

The purpose of this index is to provide the user with a ready reference for determining the specific requirements which are applicable to a given approved item name. This index lists all requirements in sequence as they appear in the FIIG. The applicability of a Master Requirement Coded requirement is indicated by the column headed by the specific item name applicability key as follows:

(1) The letter "X" indicates the requirement must be answered for a full descriptive item.

(2) The letters "AR" indicate the requirement is to be answered as required by (1) instructional notes within the FIIG; (2) when the reply is predicated on replies to a related main requirement; or (3) when an asterisk (*) is used in conjunction with the applicability key column in Section I.

(3) A blank in the column indicates the requirement is not applicable to the specific item name.

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c. Section I - Item Characteristics Data Requirements:

This section contains the physical and performance characteristics requirements needed to describe and identify an item of supply. These characteristics differentiate one item from all other items of supply and are to be used to meet the needs of all supported functions. This section is arranged in columns. Identification of each column and instructions pertinent thereto are as follows:

(1) Applicability Key:

The first column shows the applicability key(s) for each requirement. It indicates whether the requirement need be satisfied for the item being identified. "ALL" indicates that the requirement must be answered for all items covered by the FIIG. One or more alphabetic character(s) or group of one or more alphabetic characters indicates a response is required when describing items with an approved item name or names represented by the key(s). An asterisk (*) used in conjunction with any applicability key indicates that the characteristic stated in the requirement may not be applicable to all items covered by the FIIG.

(2) Master Requirement Codes (MRC):

A four-position code which is assigned to a FIIG requirement for identification of the requirement, cross-referencing requirements in the various sections and appendices of the FIIG, and for mechanized processing and retrieval of FIIG generated data. Absence of a MRC for a requirement indicates a lead-in to requirements with individual MRCs in Appendix B.

(a) The coding technique for providing MULTIPLE/OPTIONAL responses will not be used for a Section I requirement assigned Mode Code A or L that leads to Appendix B sketches with dimensional requirements.

(b) Identified Secondary Address Coding:

This technique is for extending the Master Requirement Code so that a unique address is provided for each application of the requirement in relation to the item and is authorized only as instructed within the requirement. Responses coded through this technique will always consist of the following: (1) Master Requirement Codes, (2) indicator code (a single numeric character determined by the number of positions contained), (3) identified secondary address code (1 to 3-digit alphabetic codes determined by the number of predicted replies), (4) the mode code, (5) the reply code and/or clear text response, and (6) end with a record separator (*). Steps (1) through (6) are repeated for each application of the requirement.

(c) AND/OR coding:

A technique for extending the Master Requirement Code to provide a distinctive address for multiple responses to the same requirement. Responses coded through this technique will always consist of (1) Master Requirement Code, (2) mode code, (3) the response or reply code (as instructed by the requirement), (4) a single dollar sign (\$) for an OR condition, or a double dollar sign (\$\$) for an AND condition, (5) the mode code, (6) the response or reply code

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(followed by conditions (4) through (6) for each of the multiple responses) and (7) end with a record separator (*). NOTE: Apply this technique only when instructed by the requirement sample reply (e.g.).

(3) Mode Code:

A one-position alphabetic code that specifies the manner in which a response will be prepared. Each requirement assigned a MRC is also assigned a mode code. Sample replies follow each FIIG requirement displaying the proper construction of a response for the assigned mode code. The response to a requirement will always be prepared in accordance with the assigned mode code and sample reply except in the following instances:

(a) Use of E Mode Code replies is not authorized. If a reply needed to describe an item is not listed in the applicable table, contact the FIIG Initiator.

(b) Mode Code K may not be used for any requirement unless instructed by the requirement instructions.

(4) Requirement:

This portion includes the characteristics data elements and data use identifiers required to identify and differentiate one item of supply from another, narrative definitions, and explanations as to use and method of expression. Instructions for coding and preparing replies are also provided.

(5) Reply Code:

A code that represents an established authorized reply to a requirement.

d. Section III - Supplementary Technical and Supply Management Data:

This section includes those characteristics requirements necessary to support specific logistics functions other than National Stock Number assignment.

e. Appendix A - Reply Tables:

Tables of authorized replies to requirements and reply codes when the tables are too lengthy for inclusion in Section I/III, when applicable.

f. Appendix B - Reference Drawings:

This appendix contains representative illustrations which portray specific variations of one or more generic characteristics. If reference drawings contain requirements pages to be used in conjunction with illustrations for dimensioning purposes, the requirements pages will contain Master Requirement Codes, mode codes, and a statement of the requirement. A response to requirements on a requirements page is necessary only for those Master Requirement Codes applicable to the illustration selected.

g. Appendix C - Technical Data Tables:

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This appendix contains conversion charts and similar data pertinent to the requirements in Section I/III, when applicable.

3. Enter administrative MRC CLQL immediately following the last FIIG requirement reply, as instructed below:

<u>MRC</u>	<u>Mode</u>	<u>Requirement</u>	<u>Example</u>
	<u>Code</u>		
CLQL	G	COLLOQUIAL NAME (common usage name by which an item is known)	CLQLGWOVEN WIRE CLOTH*

4. Special Instructions and Indicator Definitions

a. Measurements:

Unless otherwise indicated within a requirement example, enter all measurements in decimal form, carried to the nearest three decimal places, with a minimum of one digit preceding the decimal. For SI (metric), enter all measurements with a minimum of one digit before and after the decimal. For fraction to decimal conversion, see Appendix C.

b. Indicators:

A cross hatch (#) following an AIN, MRC, Reply Code or Drawing Number indicates for "ALL EXCEPT USA" use only.

5. Indexes

a. Index of Data Requirements

This index is arranged in alphabetic sequence by Master Requirement Code, cross-referenced to the applicable data requirement and page number(s).

b. Index of Approved Item Names

This index is arranged in alphabetic sequence referenced to Applicability Key.

c. Applicability Key Index

This index is arranged in Applicability Key Sequence.

6. Maintenance

Requests for revisions and other changes will be directed to:

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INDEX OF APPROVED ITEM NAMES COVERED BY THIS FIIG

INDEX OF APPROVED ITEM NAMES COVERED BY THIS FIIG

<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
DELAY LINE	06373	A

An item which provides a predetermined delay to an electrical pulse, while maintaining substantially the same waveform. The delay is obtained by means of a real or artificial transmission line or equivalent device. The equivalent device may be acoustic, distributive, lumped constant, magnetic solid state, or surface acoustical wave type. See also ATTENUATOR, (as modified); TRANSFORMER, (as modified); and OSCILLATOR, PULSE DELAY.

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APPLICABILITY KEY INDEX

APPLICABILITY KEY INDEX

A

NAME	X
BZWM	X
CCDN	AR
ATPC	AR
CCDP	AR
AFBH	X
CCDQ	AR
CCDR	AR
CCDS	AR
AFGA	AR
CCDT	AR
ANSL	AR
ANSR	AR
BHTH	AR
AMSE	AR
CCDX	AR
ACZB	AR
APQL	AR
ACZU	AR
ACZT	AR
AEDX	AR
AAZT	AR
ABGC	AR
ABNC	AR
ABWV	AR
ABXF	AR
ABXQ	AR
AEDN	AR
AAQL	X
ABFY	AR
ABHE	AR
ABHP	AR
ABKK	AR
ABMK	AR
ABPM	AR
ADAQ	AR
ADAS	AR
ADAT	AR
ADMG	AR
ADUW	AR
ADUX	AR
AHSX	AR
AHSY	AR
AHTD	AR
ARBR	AR
CCDY	AR
CCDZ	AR
CCFB	AR

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CCFC	AR
CCFD	AR
ANNQ	AR
ANNR	AR
CCFF	X
AZGM	X
AAUB	AR
ABGD	AR
ABXD	AR
AGXF	AR
CDQK	AR
AKPV	AR
THDS	AR
AAJD	AR
AAJE	AR
BBBW	AR
ABUH	AR
AFDS	AR
AFDT	AR
AFDU	AR
AFDV	AR
AFDW	AR
RADC	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
NHCF	AR
ELCD	AR
AKNA	AR
AWJN	AR
BBRG	AR
AFJN	AR
BBRJ	AR
PRMT	AR
PMWT	AR
PMLC	AR
RADD	AR
AFJK	AR
AGAV	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
HZRD	AR
SHPN	AR
DENN	AR
WLBL	AR
CXCY	AR

SECTION I

AP

P

Key MRC

Mode Code Requirements

ALL

NAME	D	ITEM NAME
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Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED06373*)

ALL

BZWM	D	SIGNAL DELAY METHOD
------	---	---------------------

Definition: THE MEANS BY WHICH THE SIGNAL IS DELAYED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BZWMDAMR*; BZWMDAMR\$\$DBME*; BZWMDAMR\$DBME*)

For definitions regarding the terms shown in the reply table, see Appendix C, Table 2.

<u>REPLY CODE</u>	<u>REPLY (AK95)</u>
AMR	ELECTROMECHANICAL
BME	INDUCTANCE
BMF	LUMPED CONSTANT (electromagnetic)
ADJ	MAGNETOSTRICTION
CCC	SOLID STATE
CCD	SURFACE ACOUSTICAL WAVE
AML	TRANSMISSION LINE

ALL *

CCDN	D	DELAY TIME VARIATION METHOD
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Definition: THE MEANS USED TO VARY THE DELAY TIME OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CCDNDAAB*; CCDNDAAB\$\$DAAC*; CCDNDAAB\$DAAC*)

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Key	MRC	Mode Code Requirements

For definitions regarding the terms shown in the reply table, see Appendix C, Table 7.

<u>REPLY CODE</u>	<u>REPLY (AD63)</u>
AAB	ADJUSTABLE (step by step)
AAL	PROGRAMMABLE
AAC	TAPPED
AAD	VARIABLE (continuously)

NOTE FOR MRCS ATPC AND CCDP: IF REPLY CODE AAB OR AAL IS ENTERED FOR MRC CCDN, A REPLY MUST BE ENTERED FOR MRCS ATPC AND CCDP.

ALL * (See Note Above)

ATPC A STEP QUANTITY

Definition: THE NUMBER OF STEPS PROVIDED.

Reply Instructions: Enter the quantity. (e.g., ATPCA5*)

ALL * (See Note Preceding MRC ATPC)

CCDP J DELAY TIME PER STEP

Definition: THE AMOUNT OF TIME DELAY BETWEEN ADJACENT STEP SETTINGS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CCDPJALA3.000*;
CCDPJALB3.000\$\$JALC3.050*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AB49)</u>
AL	MICROSECONDS
BK	MILLISECONDS
EF	NANOSECONDS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

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Key	MRC	Mode Code Requirements

ALL

AFBH A INDIVIDUAL SECTION QUANTITY

Definition: THE NUMBER OF INDIVIDUAL SECTIONS INCLUDED IN THE ITEM.

Reply Instructions: Enter the quantity. (e.g., AFBHA2*)

See Appendix C, Table 5, for definition of section.

ALL *

CCDQ J SECTION DELAY TIME

Definition: THE TIME DELAY OF EACH SECTION OF AN ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below and [Appendix A](#), Table 3, followed by the numeric value. (e.g., CCDQJALACN300.000*)

For multiple replies, use AND/OR (\$\$/) coding, entering in Appendix A, Table 3, sequence. (e.g., CCDQJALBCP40.000\$\$JALCCP45.000;
CCDQJALACQ90.000\$JALACQ95.000*;
CCDQJALBCR35.000\$\$JALCCR40.00\$JALBCR60.000\$\$JALCCR75.000*)*

Table 1

<u>REPLY CODE</u>	<u>REPLY (AB49)</u>
AL	MICROSECONDS
BK	MILLISECONDS
EF	NANOSECONDS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL *

CCDR J SEGMENT QUANTITY PER SECTION

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Key MRC

Mode Code Requirements

Definition: THE NUMBER OF SEGMENTS INTO WHICH A SECTION IS DIVIDED.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 3, followed by the quantity. (e.g., CCDRJCN3*)

*For multiple replies, use AND/OR Coding, entering in Appendix A, Table 3 sequence.
(e.g., CCDRJCP4\$\$JCP5*; CCDRJCR8\$JCR10*;
CCDRJCS6\$\$JCP8\$JCS12\$\$JCS16*)*

Refer to Appendix C, Table 5, for definition of segment.

ALL *

CCDS J SEGMENT DELAY TIME

Definition: THE TIME DELAY OF EACH SEGMENT.

Reply Instructions: For items with all segments of the same value, enter the applicable Reply Codes from Tables 1 and 2 below and from [Appendix A](#), Table 3 and Appendix A, Table 4, followed by the numeric value. (e.g., CCDSJALACNAQ100.000*)

*For items with segments of different time delays, use AND/OR Coding (\$\$/ \$), entering in Appendix A, Table 3 and Appendix A, Table 4, sequence. (e.g.,
CCDSJALBCRAR50.000\$\$JALCCRAR55.000*;
CCDSJALACRAS30.000\$JALACRAS35.000*;
CCDSJALBCMAT100.000\$\$JALCCMAT105.000\$JALBCNAT100.000\$\$JALCCNAT105.000*)*

Table 1

<u>REPLY CODE</u>
AL
BK
EF

<u>REPLY (AB49)</u>
MICROSECONDS
MILLISECONDS
NANOSECONDS

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Key MRC

Mode Code Requirements

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL *

AFGA J OPERATING TEMP RANGE

Definition: THE MINIMUM AND MAXIMUM LIMITS OF TEMPERATURE AT WHICH THE ITEM IS RATED FOR OPERATION.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values separated by a slash. Precede negative values with an M and positive values with a P. (e.g., AFGAJCM25.0/P130.0*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., AFGAKN*)

<u>REPLY CODE</u>	<u>REPLY (AB36)</u>
C	DEG CELSIUS
F	DEG FAHRENHEIT

ALL *

CCDT J DELAY TIME VARIATION PER DEG CELSIUS

Definition: THE CHANGE IN DELAY AS A RESULT OF THE TEMPERATURE CHANGE PER DEGREE CELSIUS.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CCDTJEF0.020*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., CCDTKN*)

<u>REPLY CODE</u>	<u>REPLY (AB49)</u>
AL	MICROSECONDS
EF	NANOSECONDS

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SECTION I

AP

P

Key MRC

Mode Code Requirements

ALL *

ANSL J INPUT IMPEDANCE RATING

Definition: THE TOTAL OPPOSITION (RESISTIVE AND REACTIVE) WHICH THE ITEM OFFERS TO THE INPUT FLOW OF ALTERNATING CURRENT.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., ANSLJQR50.000*)

If item is rated for CHARACTERISTIC IMPEDANCE only, enter that value.

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., ANSLKN*)

<u>REPLY CODE</u>	<u>REPLY (AE75)</u>
KR	KILOHMS
MR	MEGOHMS
QR	OHMS

ALL *

ANSR J OUTPUT IMPEDANCE RATING

Definition: THE TOTAL OPPOSITION (RESISTIVE AND REACTIVE) WHICH THE ITEM OFFERS TO THE OUTPUT FLOW OF ALTERNATING CURRENT.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., ANSRJQR100.000*)

If item is rated for CHARACTERISTIC IMPEDANCE only, enter that value.

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., ANSRKN*)

<u>REPLY CODE</u>	<u>REPLY (AE75)</u>
KR	KILOHMS
MR	MEGOHMS
QR	OHMS

ALL *

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Key MRC

Mode Code Requirements

BHTH B ATTENUATION IN DECIBELS

Definition: THE DECREASE IN STRENGTH OF AN ELECTRICAL IMPULSE,
EXPRESSED IN DECIBELS.

Reply Instructions: Enter the numeric value. (e.g., BHTHB15.500*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., BTHKKN*)

ALL *

AMSE J VOLTAGE RATING

Definition: THE VALUE(S) OF POTENTIAL FOR WHICH THE ITEM IS RATED.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below,
followed by the numeric value. (e.g., AMSEJVA400.000*;
AMSEJVB300.000\$\$JVC350.000*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., AMSEKN*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AB63)</u>
K	KILOVOLTS
M	MEGAVOLTS
U	MICROVOLTS
L	MILLIVOLTS
V	VOLTS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL *

CCDX J PULSE RISE TIME RATING

Definition: THE RATED TIME REQUIRED FOR THE PULSE TO RISE.

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Key MRC

Mode Code Requirements

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CCDXJAL2.0*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., CCDXKN*)

<u>REPLY CODE</u>	<u>REPLY (AB49)</u>
AL	MICROSECONDS
BK	MILLISECONDS
EF	NANOSECONDS

ALL *

ACZB J FREQUENCY RATING

Definition: THE NUMBER OF COMPLETE CYCLIC CHANGES, PER UNIT OF TIME, FOR WHICH AN ITEM IS RATED.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACZBJMA1.500*)

For items expressed as a range, use AND coding (\$\$), entering the minimum value first. If the item has different frequency ratings, use AND coding (\$\$), entering in the same sequence as MRC AMSE. (e.g., ACZBJKB1.400\$\$JKC1.600*; ACZBJKA1.800\$\$JKA1.300*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., ACZBKN*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AC32)</u>
G	GIGAHERTZ
E	HERTZ
K	KILOHERTZ
M	MEGAHERTZ

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

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Key MRC

Mode Code Requirements

ALL *

APQL J FREQUENCY BANDWIDTH

Definition: THE DIFFERENCES BETWEEN LIMITING FREQUENCIES OF A FREQUENCY BAND.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., APQLJEA50.0*; APQLJEB20.0\$\$JEC70.0*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., APQLKN*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AC32)</u>
E	HERTZ
K	KILOHERTZ

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL *

ACZU D ADJUSTMENT DEVICE DRIVE TYPE

Definition: INDICATES THE TYPE OF DRIVE PROVIDED FOR THE ADJUSTMENT DEVICE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ACZUDAAB*; ACZUDAAB\$\$DAAD*; ACZUDAAB\$DAAD*)

<u>REPLY CODE</u>	<u>REPLY (AE10)</u>
AAC	LEVER
AAD	LINEAR SLIDE
AAE	ROTATING CYLINDER
AAB	SHAFT
AAF	SLOTTED SCREW

ALL *

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P

Key MRC

Mode Code Requirements

ACZT	A	ADJUSTMENT DEVICE QUANTITY
Definition: THE NUMBER OF FIXED OR ADJUSTABLE FACILITIES PROVIDED TO ADJUST AN ITEM.		

Reply Instructions: Enter the quantity. (e.g., ACZTA2*; ACZTA2\$\$A4*)

NOTE FOR MRC AEDX: A REPLY MUST BE ENTERED FOR THIS MRC IF REPLY CODE AAB IS ENTERED FOR MRC ACZU.

ALL * (See Note Above)

AEDX	L	SHAFT STYLE
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Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE SHAFT.

Reply Instructions: Enter the applicable style designator from [Appendix B](#), Reference Drawing Group E. (e.g., AEDXL2*)

ALL

AAQL	L	BODY STYLE
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Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE BODY.

Reply Instructions: Enter the applicable style designator from [Appendix B](#), Reference Drawing Group A. (e.g., AAQLL4*)

ALL *

ANNQ	H	MATERIAL AND LOCATION
------	---	-----------------------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT, AND ITS LOCATION.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1, followed by the Reply Code from the table below. (e.g., ANNQHAL0276AAB*; ANNQHALC000AAB\$\$HAL0000AAB*; ANNQHALC000AAB\$HAL0000AAB*)

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Key	MRC	
	Mode Code	Requirements

When multiple or optional materials are specified for more than one location, use AND/OR coding (\$\$/) to separate locations and materials. (e.g., ANNQHBR0000ABQ\$\$HCU0000ABQ\$\$HME0000AKR\$HSTD000AKR; ANNQHBR0000ALE\$\$HCU000ALE\$\$HPC0000AZM\$\$HALC000AZM*)*

Mode Code K is not authorized for this MRC.

<u>REPLY CODE</u>	<u>REPLY (AJ91)</u>
ABQ	BODY
ALE	BUSHING
AZM	CASE
DWD	CONDUCTOR
AKR	CORE
DWE	DIELECTRIC
AJP	FLANGE
DXM	INSULATING TUBE
AAB	OVERALL
BJR	SHAFT
CQJ	SHIELD
CMA	TERMINAL
AHD	TUBE

ALL *

ANNR	H	SURFACE TREATMENT AND LOCATION
------	---	--------------------------------

Definition: THE PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND /OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS THE SURFACE OF THE ITEM AND ITS LOCATION.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2, followed by the Reply Code from the table below. (e.g., ANNRHAN0009AAB*; ANNRHAN0000AAB\$\$HAN0003AAB*; ANNRHAN0000AAB\$HAN0003AAB*)

When multiple or optional surface treatments are specified for more than one location, use AND/OR coding (\$\$/) to separate locations and surface treatments. (e.g., ANNRHAN0000ABQ\$\$HAN0003ABQ\$\$HCU0000AJP\$HCR0027AJP; ANNRHCDR000ALE\$\$HCD0004ALE\$\$HCDR000DWD\$\$HCU0000DWD*)*

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SECTION I

AP
P
Key MRC Mode Code Requirements

Mode Code K is not authorized for this MRC.

<u>REPLY CODE</u>	<u>REPLY (AJ91)</u>
ABQ	BODY
ALE	BUSHING
AZM	CASE
DWD	CONDUCTOR
AJP	FLANGE
AAB	OVERALL
BJR	SHAFT
CQJ	SHIELD
CMA	TERMINAL

ALL

CCFF J TERMINAL TYPE AND QUANTITY

Definition: INDICATES THE TYPE AND NUMBER OF TERMINALS FOR PROVIDING ELECTRICAL CONNECTION.

Reply Instructions: Enter the applicable Reply Code from [Appendix B](#), Reference Drawing Group B, followed by the quantity. (e.g., CCFFJAAAG3*)

For multiple replies, use AND coding (\$\$), entering replies in alphabetic Reply Code sequence. (e.g., CCFFJAAAC4\$\$JAAAE1*)

ALL

AZGM D MOUNTING FACILITY

Definition: THE FACILITY FOR MOUNTING THE ITEM.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 8. (e.g., AZGMDAFA*; AZGMDAFA\$\$DAHF\$\$DAET*)

NOTE FOR MRC AAUB: IF REPLY CODE ACQ IS ENTERED FOR MRC AZGM, REPLY TO MRC AAUB.

ALL * (See Note Above)

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SECTION I

AP

P

Key MRC

Mode Code Requirements

AAUB	J	HOLE DIAMETER
------	---	---------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A HOLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AAUBJAA0.175*; AAUBJLA25.4*; AAUBJAB2.495\$\$JAC2.503*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

NOTE FOR MRC ABGD: IF REPLY CODE ABY OR BCX IS ENTERED FOR MRC AZGM, REPLY TO MRC ABGD.

ALL * (See Note Above)

ABGD	J	SLOT LENGTH
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Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF THE SLOT, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABGDJAA0.175*; ABGDJLA25.4*; ABGDJAB2.495\$\$JAC2.503*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM

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SECTION I

AP	P	Key	MRC	Mode Code	Requirements
			C	MAXIMUM	

NOTE FOR MRC ABXD: IF REPLY CODE AFA IS ENTERED FOR MRC AZGM, REPLY TO MRC ABXD.

ALL * (See Note Above)

ABXD J BUSHING LENGTH

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF A BUSHING, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABXDJAA0.175*; ABXDJLA25.4*; ABXDJAB2.495\$\$JAC2.503*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

NOTE FOR MRC AGXF: IF REPLY CODE AET IS ENTERED FOR MRC AZGM, REPLY TO MRC AGXF.

ALL * (See Note Above)

AGXF J STUD LENGTH

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF THE STUD, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AGXFJAA0.175*; AGXFJLA25.4*; AGXFJAB2.495\$\$JAC2.503*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>

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SECTION I

AP			
P			
Key	MRC	Mode Code	Requirements

A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

NOTE FOR MRC CDQK: IF REPLY CODE ABY OR BCX IS ENTERED FOR MRC AZGM, REPLY TO MRC CDQK.

ALL * (See Note Above)

CDQK	J	SLOTTED HOLE WIDTH
------	---	--------------------

Definition: AN OVERALL MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF THE SLOTTED HOLE LENGTH, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CDQKJAA0.175*; CDQKJLA25.4* CDQKJAB2.495\$\$JAC2.503*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL *

AKPV	A	MOUNTING FACILITY QUANTITY
------	---	----------------------------

Definition: THE NUMBER OF MOUNTING FACILITIES PROVIDED.

Reply Instructions: Enter the quantity. (e.g., AKPVA4*)

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SECTION I

AP

P

Key MRC

Mode Code Requirements

For multiple replies, use AND coding (\$\$) entering in the same sequence as MRC AZGM. (e.g., AKPVA4*; AKPVA4\$\$A6\$\$A3*)

NOTE FOR MRCS THDS, AAJD, AND AAJE: REPLY TO MRCS THDS, AAJD, OR AAJE IF REPLY TO MRC AZGM IS AFA, AHF, OR AET.

ALL * (See Note Above)

THDS J THREAD SIZE AND SERIES/TYPE DESIGNATOR

Definition: DESIGNATES THE THREAD DIAMETER, SERIES/TYPE, AND NUMBER OF THREADS PER SPECIFIC MEASUREMENT SCALE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 6, followed by the thread size, a dash, and the number of threads per specific measurement scale.

For multiple replies, use AND coding (\$\$), entering in the same sequence as MRC AZGM.

(e.g., THDSJNF0.500-20*;

THDSJNF0.500-20\$\$JNF0.190-32*)

ALL * (See Note Preceding MRC THDS)

AAJD A THREAD CLASS

Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE AND AN EXTERNAL OR INTERNAL THREAD.

Reply Instructions: Enter the thread class. (e.g., AAJDA1A*; AAJDA2A\$\$A3A*)

ALL * (See Note Preceding MRC THDS)

AAJE J THREAD PITCH DIAMETERS

Definition: THE MINIMUM AND MAXIMUM PITCH DIAMETER LIMITS OF A STRAIGHT SCREW THREAD.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the minimum and maximum pitch diameters. Precede each value within the range with a P. (e.g., AAJEJAP0.2174/P0.2175*)

REPLY CODE

REPLY (AA05)

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SECTION I

AP
P
Key MRC

Mode Code Requirements

A	INCHES
L	MILLIMETERS

ALL *

BBBW L MOUNTING PROVISION ARRANGEMENT
STYLE

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE ARRANGEMENT OF THE MOUNTING PROVISION(S).

Reply Instructions: Enter the applicable style number from [Appendix B](#), Reference Drawing Group D. (e.g., BBBWL4*)

NOTE FOR MRC RADC: IF THIS MRC IS ANSWERED, A REPLY TO MRC RADD IN SECTION III IS MANDATORY.

ALL * (See Note Above)

RADC D RADIOACTIVE CONTENT

Definition: AN INDICATION OF WHETHER OR NOT THE ITEM CONTAINS RADIOACTIVE MATERIALS.

Reply Instructions: Enter the Reply Code from the table below. (e.g., RADCDP*)

<u>REPLY CODE</u>	<u>REPLY (AN54)</u>
P	CONTAINS RADIOACTIVE MATERIAL

ALL *

FEAT G SPECIAL FEATURES

Definition: THOSE UNUSUAL OR UNIQUE CHARACTERISTICS OR QUALITIES OF AN ITEM NOT COVERED IN THE OTHER REQUIREMENTS AND WHICH ARE DETERMINED TO BE ESSENTIAL FOR IDENTIFICATION.

Reply Instructions: Enter the reply in clear text. Separate multiple replies with a semicolon. (e.g., FEATGADJUSTABLE NOSE CLIP*; FEATGADJUSTABLE NOSE PIECE; DISPOSABLE*)

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SECTION I

AP

P

Key MRC

Mode Code Requirements

ALL *

TEST J TEST DATA DOCUMENT

Definition: THE SPECIFICATION, STANDARD, DRAWING, OR SIMILAR INSTRUMENT THAT SPECIFIES ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS OR TEST CONDITIONS UNDER WHICH AN ITEM IS TESTED AND ESTABLISHES ACCEPTABLE LIMITS WITHIN WHICH THE ITEM MUST CONFORM IDENTIFIED BY AN ALPHABETIC AND/OR NUMERIC REFERENCE NUMBER. INCLUDES THE COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE OF THE ENTITY CONTROLLING THE INSTRUMENT.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the 5-position CAGE Code, a dash, and the document identification number.

(e.g., TESTJA12345-CWX654321*;

TESTJA1234A-654321\$\$JB5556A-663654*;

TESTJAA2345-654321\$JB55566-663654*)

<u>REPLY CODE</u>	<u>REPLY (AC28)</u>
C	DRAWING (This is the basic governing drawing, such as a contractor drawing, original equipment manufacturer drawing, etc.; excludes any specification, standard, or other document that may be referenced in a basic governing drawing)
A	SPECIFICATION (Includes engineering type bulletins, brochures, etc., that reflect specification type data in specification format; excludes commercial catalogs, industry directories, and similar trade publications, reflecting general type data on certain environmental and performance requirements and test conditions that are shown as "typical," "average," "nominal," etc.)
B	STANDARD (Includes industry or association standards, individual manufacturer standards, etc.)

ALL *

SPCL G SPECIAL TEST FEATURES

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SECTION I

AP
P
Key MRC Mode Code Requirements

Definition: TEST CONDITIONS AND RATINGS, OR ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS THAT ARE DIFFERENT, MORE CRITICAL, OR MORE SPECIFIC THAN THOSE SPECIFIED IN A GOVERNING TEST DATA DOCUMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SPCLGSELECTED AND TESTED FOR NAVIGATIONAL SYSTEMS*)

ALL *

ZZZK J SPECIFICATION/STANDARD DATA

Definition: THE DOCUMENT DESIGNATOR OF THE SPECIFICATION OR STANDARD WHICH ESTABLISHED THE ITEM OF SUPPLY.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the Commercial and Government Entity (CAGE) Code of the entity controlling the document, a dash, and the document designator. The agency that controls the limited coordination document must be preceded and followed by a slash following the designator. The word canceled or superseded must be preceded and followed by a slash for the designator. Professional and industrial association specifications/standards are differentiated from a manufacturer's specification in that the data has been coordinated and published by the professional and industrial association. Include amendments and revisions where applicable.

(e.g., ZZZKJT81337-30642B*;

ZZZKJS81349-MIL-D-180 REV1/CANCELED/*;

ZZZKJP80205-NAS1103*;

ZZZKJS81349-MIL-C-1140C/CE/*;

ZZZKJT81337-30642B\$\$JP80205-NAS1103*)

<u>REPLY CODE</u>	<u>REPLY (AN62)</u>
S	GOVERNMENT SPECIFICATION
T	GOVERNMENT STANDARD
D	MANUFACTURERS SOURCE CONTROL
R	MANUFACTURERS SPECIFICATION
N	MANUFACTURERS SPECIFICATION CONTROL
M	MANUFACTURERS STANDARD
A	PROFESSIONAL/INDUSTRIAL ASSOCIATION

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SECTION I

AP	P	Key	MRC	Mode	Code	Requirements
		P				SPECIFICATION PROFESSIONAL/INDUSTRIAL ASSOCIATION STANDARD
NOTE FOR MRC ZZZT: IF THE SPECIFICATION/STANDARD CITED IN REPLY TO MRC ZZZK IS NONDEFINITIVE, REPLY TO MRC ZZZT. THIS REPLY IS THE DATA WHICH IS NOT RECORDED IN SEGMENT C.						
ALL * (See Note Above)						
ZZZT	J					NONDEFINITIVE SPEC/STD DATA
Definition: THE NUMBER, LETTER, OR SYMBOL THAT INDICATES THE TYPE, STYLE, GRADE, CLASS, AND THE LIKE, OF AN ITEM IN A NONIDENTIFYING SPECIFICATION OR STANDARD.						
Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 5, followed by the appropriate number, letter, or symbol. (e.g., ZZZTJTY1*; ZZZTJTY1\$\$JSTA*; ZZZTJTY1\$JSTA*)						
ALL *						
ZZZW	G					DEPARTURE FROM CITED DOCUMENT
Definition: THE TECHNICAL DIFFERENTIATING CHARACTERISTIC(S) OF AN ITEM OF SUPPLY WHICH DEPART(S) FROM THE TEXT OF A SPECIFICATION OR A STANDARD IN THAT IT REPRESENTS A SELECTION OF CHARACTERISTICS STATED IN THE SPECIFICATION OR STANDARD AS BEING OPTIONAL, OR A VARIATION FROM ONE OR MORE OF THE STATED CHARACTERISTICS, OR AN ADDITIONAL CHARACTERISTIC NOT STATED IN THE SPECIFICATION OR STANDARD.						
Reply Instructions: Enter the reply in clear text. (e.g., ZZZWGAS MODIFIED BY MATERIAL*)						
ALL *						
ZZZX	G					DEPARTURE FROM CITED DESIGNATOR
Definition: THE VARIATION WHEN THE ITEM IS IN CONFORMITY WITH A TYPE DESIGNATOR COVERED BY A SPECIFICATION OR STANDARD, EXCEPT IN REGARD TO ONE OR MORE TECHNICAL DIFFERENTIATING CHARACTERISTICS.						

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SECTION I

AP

P

Key MRC

Mode Code Requirements

Reply Instructions: Enter the reply in clear text. (e.g., ZZZXGAS MODIFIED BY MATERIAL*)

ALL *

ZZZY G REFERENCE NUMBER DIFFERENTIATING CHARACTERISTICS

Definition: A FEATURE OF THE ITEM OF SUPPLY WHICH MUST BE SPECIFICALLY RECORDED WHEN THE REFERENCE NUMBER COVERS A RANGE OF ITEMS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZYGCOLOR CODED LEADS*; ZZZYGAS DIFFERENTIATED BY MATERIAL*)

ALL *

CRTL A CRITICALITY CODE JUSTIFICATION

Definition: THE MASTER REQUIREMENT CODES OF THOSE REQUIREMENTS WHICH ARE TECHNICALLY CRITICAL BY REASON OF TOLERANCE, FIT, PERFORMANCE, OR OTHER CHARACTERISTICS WHICH AFFECT IDENTIFICATION OF THE ITEM.

Reply Instructions: Enter the Master Requirement Code for the requirement, the reply to which renders the item as being critical. (e.g., CRTLAMATL*; CRTLAMATL\$\$ASURF*)

Reply to this requirement only if the header record for the item identification for the item being identified has been coded as critical.

NOTE FOR MRC PRPY: IF DOCUMENT AVAILABILITY CODE B, D, F, OR H, REPLY TO MRC PRPY.

ALL * (See Note Above)

PRPY A PROPRIETARY CHARACTERISTICS

Definition: IDENTIFICATION OF THOSE CHARACTERISTICS INCLUDED IN THE DESCRIPTION FOR WHICH A NON-GOVERNMENT ACTIVITY HAS IDENTIFIED ALL OR SELECTED CHARACTERISTICS OF THE ITEM AS BEING PROPRIETARY AND THEREFORE RESTRICTED FROM RELEASE OUTSIDE THE GOVERNMENT WITHOUT PRIOR PERMISSION OF THE ORIGINATOR OF THE DATA.

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SECTION I

AP

P

Key MRC

Mode Code Requirements

Reply Instructions: Enter the MRC codes of the individual characteristics of the description which are marked proprietary on the technical data, using AND coding (\$\$) for multiple characteristics. If all the MRCs are proprietary, enter the reply PACS. If none of the MRCs is proprietary, enter the reply NPAC. (e.g., PRPYAPACS*; PRPYANPAC*; PRPYAMATL\$\$ASURF*)

ALL *

ELRN G EXTRA LONG REFERENCE NUMBER

Definition: A REFERENCE NUMBER EXCEEDING 32 POSITIONS.

Reply Instructions: Enter the entire reference number. Do not include the 5-position Commercial and Government Entity (CAGE) Code. (e.g., ELRNGANN112036BIL060557LEN0313605UZ062365*)

In determining quantity of characters in the reference number, count will be made after modification in accordance with Volume 2, Chapter 9, FLIS Procedures Manual, DoD 4100.39-M.

NOTE FOR MRC NHCF: IF THE CRITICALITY CODE IS E, H, OR M, REPLY TO MRC NHCF.

ALL * (See Note Above)

NHCF D NUCLEAR HARDNESS CRITICAL FEATURE

Definition: AN INDICATION OF THE NUCLEAR HARDNESS CRITICALITY OF THE ITEM.

Reply Instructions: Enter the reply code from the table below. (e.g., NHCFDCY*)

<u>REPLY CODE</u>	<u>REPLY (AD05)</u>
CY	HARDENED

ALL *

ELCD D EXTRA LONG CHARACTERISTIC DESCRIPTION

Definition: A DESCRIPTION THAT EXCEEDS 5000 CHARACTERS.

Reply Instructions: Enter the Reply Code from the table below. (e.g., ELCDDA*)

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SECTION I

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P
Key MRC Mode Code Requirements

<u>REPLY CODE</u>	<u>REPLY (AN58)</u>
A	ADDITIONAL DESCRIPTIVE DATA ON MANUAL RECORD

SECTION III

APP
Key MRC Mode Code Requirements

ALL	AKNA	D	INCLOSURE TYPE
-----	------	---	----------------

Definition: INDICATES THE TYPE OF INCLOSURE PROVIDED TO COAT, COVER, PROTECT, OR ENCASE THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AKNADAB*; AKNADAN\$\$DAD*; AKNADAN\$DAD*)

<u>REPLY CODE</u>	<u>REPLY (AG85)</u>
AN	ENCASED
AD	HERMETICALLY SEALED
AB	UNINCLOSED

ALL

AWJN J UNPACKAGED UNIT WEIGHT

Definition: THE MEASURED WEIGHT OF AN ITEM UNENCUMBERED BY PACKAGING OR PACKING MATERIAL.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AWJNJAN14.000*; AWJNJBA396.2*)

For items indicating pounds and ounces, see Appendix C, Table 8, for conversion.

REPLY CODE REPLY (AG67)

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SECTION I

APP Key	MRC	Mode Code	Requirements																																		
	BA		GRAMS																																		
	AJ		KILOGRAMS																																		
	AN		OUNCES																																		
	AS		POUNDS																																		
ALL																																					
BBRG	D		STORAGE TYPE																																		
<p>Definition: INDICATES THE TYPE OF STORAGE SPACE REQUIRED FOR AN ITEM IN ORDER TO PROVIDE THE DEGREE OF PROTECTION NECESSARY TO MAINTAIN SERVICEABILITY STANDARDS.</p> <p>Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BBRGDAM*; BBRGDAD\$\$DAN*; BBRGDAC\$DAR*)</p> <table> <thead> <tr> <th><u>REPLY CODE</u></th> <th><u>REPLY (AM81)</u></th> </tr> </thead> <tbody> <tr> <td>AB</td> <td>ABOVE GROUND MAGAZINE</td> </tr> <tr> <td>AC</td> <td>CLOSED SHED</td> </tr> <tr> <td>AD</td> <td>CONTROLLED HUMIDITY WAREHOUSE</td> </tr> <tr> <td>AM</td> <td>DEHUMIDIFIED WAREHOUSE</td> </tr> <tr> <td>AT</td> <td>DOCK LEVEL HEATED WAREHOUSE</td> </tr> <tr> <td>AX</td> <td>DOCK LEVEL UNHEATED WAREHOUSE</td> </tr> <tr> <td>AE</td> <td>GENERAL PURPOSE WAREHOUSE</td> </tr> <tr> <td>AS</td> <td>GROUND LEVEL HEATED WAREHOUSE</td> </tr> <tr> <td>AW</td> <td>GROUND LEVEL UNHEATED WAREHOUSE</td> </tr> <tr> <td>AN</td> <td>HEATED WAREHOUSE</td> </tr> <tr> <td>AF</td> <td>IGLOO MAGAZINE</td> </tr> <tr> <td>AG</td> <td>IMPROVED OPEN</td> </tr> <tr> <td>AH</td> <td>OPEN SHED</td> </tr> <tr> <td>AR</td> <td>SHED</td> </tr> <tr> <td>AJ</td> <td>UNHEATED WAREHOUSE</td> </tr> <tr> <td>AK</td> <td>UNIMPROVED OPEN</td> </tr> </tbody> </table>				<u>REPLY CODE</u>	<u>REPLY (AM81)</u>	AB	ABOVE GROUND MAGAZINE	AC	CLOSED SHED	AD	CONTROLLED HUMIDITY WAREHOUSE	AM	DEHUMIDIFIED WAREHOUSE	AT	DOCK LEVEL HEATED WAREHOUSE	AX	DOCK LEVEL UNHEATED WAREHOUSE	AE	GENERAL PURPOSE WAREHOUSE	AS	GROUND LEVEL HEATED WAREHOUSE	AW	GROUND LEVEL UNHEATED WAREHOUSE	AN	HEATED WAREHOUSE	AF	IGLOO MAGAZINE	AG	IMPROVED OPEN	AH	OPEN SHED	AR	SHED	AJ	UNHEATED WAREHOUSE	AK	UNIMPROVED OPEN
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AB	ABOVE GROUND MAGAZINE																																				
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AD	CONTROLLED HUMIDITY WAREHOUSE																																				
AM	DEHUMIDIFIED WAREHOUSE																																				
AT	DOCK LEVEL HEATED WAREHOUSE																																				
AX	DOCK LEVEL UNHEATED WAREHOUSE																																				
AE	GENERAL PURPOSE WAREHOUSE																																				
AS	GROUND LEVEL HEATED WAREHOUSE																																				
AW	GROUND LEVEL UNHEATED WAREHOUSE																																				
AN	HEATED WAREHOUSE																																				
AF	IGLOO MAGAZINE																																				
AG	IMPROVED OPEN																																				
AH	OPEN SHED																																				
AR	SHED																																				
AJ	UNHEATED WAREHOUSE																																				
AK	UNIMPROVED OPEN																																				

ALL	AFJN	D	FRAGILITY FACTOR
<p>Definition: THE MEASURE OF SENSITIVITY OF THE ITEM TO BE PACKAGED. A FACTOR USED BY PACKAGING ENGINEERS IN DEVISING PROPER CUSHIONING IN A PACKAGE.</p> <p>Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFJNDE*)</p>			

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SECTION I

APP Key	MRC	Mode Code	Requirements		
		<u>REPLY CODE</u>	<u>REPLY (AD40)</u>		
<hr/>					
	D		DELICATE		
<hr/>					
	B		EXTREMELY FRAGILE		
<hr/>					
	E		MODERATELY DELICATE		
<hr/>					
	F		MODERATELY RUGGED		
<hr/>					
	G		RUGGED		
<hr/>					
	C		VERY DELICATE		
<hr/>					
ALL					
BBRJ	D	SPECIAL HANDLING FEATURE			
<hr/>					
Definition: THAT UNUSUAL OR UNIQUE CHARACTERISTIC(S) OR QUALITY(IES) OF AN ITEM WHICH NECESSITATES THE ESTABLISHMENT OF A REQUIREMENT FOR SPECIAL HANDLING.					
<hr/>					
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BBRJDAB*; BBRJDAB\$\$DAQ*)					
<hr/>					
	<u>REPLY CODE</u>	<u>REPLY (AM83)</u>			
	AB	CORROSIVE			
<hr/>					
	AQ	PILFERABLE			
<hr/>					
ALL					
PRMT	D	PRECIOUS MATERIAL			
<hr/>					
Definition: IDENTIFICATION OF THE PRECIOUS MATERIAL CONTAINED IN THE ITEM.					
<hr/>					
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., PRMTDAGA000*; PRMTDAUA000\$\$DAGA000*; PRMTDAGA000\$DAUA000*)					
<hr/>					
	<u>REPLY CODE</u>	<u>REPLY (MA01)</u>			
	AUA000	GOLD			
<hr/>					
	IRA000	IRIDIUM			
<hr/>					
	AZA000	OSMIUM			
<hr/>					
	PDA000	PALLADIUM			
<hr/>					
	PTA000	PLATINUM			
<hr/>					
	RHA000	RHODIUM			
<hr/>					
	RTA000	RUTHENIUM			
<hr/>					
	AGA000	SILVER			

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SECTION I

APP Key	MRC	Mode Code	Requirements
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ALL

PMWT J PRECIOUS MATERIAL AND WEIGHT

Definition: AN INDICATION OF THE PRECIOUS MATERIAL CONTAINED IN THE ITEM, AND THE AMOUNT PER A MEASUREMENT SCALE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. Enter multiple replies in Table 1 sequence. (e.g., PMWTJPTA000R0.780*; PMWTJAU000F0.500\$\$JAGA000R0.780*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (MA01)</u>
AUA000	GOLD
IRA000	IRIDIUM
AZA000	OSMIUM
PDA000	PALLADIUM
PTA000	PLATINUM
RHA000	RHODIUM
RTA000	RUTHENIUM
AGA000	SILVER

Table 2

<u>REPLY CODE</u>	<u>REPLY (AG14)</u>
E	GRAINS, TROY
R	GRAMS
F	OUNCES, TROY

ALL

PMLC J PRECIOUS MATERIAL AND LOCATION

Definition: AN INDICATION OF THE PRECIOUS MATERIAL AND ITS LOCATION IN THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the location in clear text. (e.g., PMLCJAU000TERMINALS*; PMLCJAU000TERMINALS\$\$JAGA000INTERNAL SURFACES*; PMLCJAGA000TERMINALS\$JAU000INTERNAL SURFACES*)

<u>REPLY CODE</u>	<u>REPLY (MA01)</u>
AUA000	GOLD
IRA000	IRIDIUM

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SECTION I

APP Key	MRC	Mode Code	Requirements
	AZA000		OSMIUM
	PDA000		PALLADIUM
	PTA000		PLATINUM
	RHA000		RHODIUM
	RTA000		RUTHENIUM
	AGA000		SILVER

NOTE FOR MRC RADD: IF REPLY CODE P IS ENTERED FOR MRC RADC IN SECTION I, A REPLY MUST BE ENTERED FOR MRC RADD.

ALL (See Note Above)

RADD J RADIONUCLIDES DATA

Definition: THE NAME AND AMOUNT OF THE RADIONUCLIDE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the Reply Code from [Appendix A](#), Table 7, and the numeric value. Where radioactivity varies from one sample to another, enter the maximum value. (e.g., RADDJJFAADL10.000*)

<u>REPLY CODE</u>	<u>REPLY (AG67)</u>
JF	CURIES
JH	MICROCURIES
JG	MILLICURIES

ALL

AFJK J CUBIC MEASURE

Definition: A MEASUREMENT OF VOLUME TAKEN BY MULTIPLYING THE LENGTH BY THE WIDTH BY THE HEIGHT OF AN ITEM RENDERED IN CUBIC UNITS.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AFJKJF27.000*; AFJKJC75.6*)

<u>REPLY CODE</u>	<u>REPLY (AD42)</u>
C	CUBIC CENTIMETERS
F	CUBIC FEET
B	CUBIC INCHES
E	CUBIC METERS

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SECTION I

APP Key	MRC	Mode Code	Requirements
<hr/>			
ALL			
	AGAV	G	END ITEM IDENTIFICATION
Definition: THE NATIONAL STOCK NUMBER OR THE IDENTIFICATION INFORMATION OF THE END EQUIPMENT FOR WHICH THE ITEM IS A PART.			
Reply Instructions: Enter the reply in clear text. (e.g., AGAVG3930-00-000-0000*; AGAVGFORKLIFT TRUCK, SMITH CORPORATION, MODEL 12, TYPE A*)			
ALL			
	SUPP	G	SUPPLEMENTARY FEATURES
Definition: CHARACTERISTICS OR QUALITIES OF AN ITEM, NOT COVERED IN ANY OTHER REQUIREMENT, WHICH ARE CONSIDERED ESSENTIAL INFORMATION FOR ONE OR MORE FUNCTIONS EXCLUDING NSN ASSIGNMENT.			
Reply Instructions: Enter the reply in clear text. (e.g., SUPPGMAY INCL HOLE IN UPPER SUPPORT FOR MTG DURING SHIPMENT*)			
ALL			
	ZZZP	J	PURCHASE DESCRIPTION IDENTIFICATION
Definition: THE CONTROLLING ACTIVITY AND IDENTIFICATION OF A DOCUMENT USED IN LIEU OF A SPECIFICATION IN THE PROCUREMENT OF AN ITEM OF SUPPLY.			
Reply Instructions: Enter the 5-position Commercial and Government Entity (CAGE) Code, followed by a dash and the identifying number of the document. (e.g., ZZZPJ81A37-30624A*)			
ALL			
	ZZZV	G	FSC APPLICATION DATA
Definition: THE JUSTIFICATION FOR THE ASSIGNMENT OF A FEDERAL SUPPLY CLASS (FSC) TO AN ITEM BASED ON THE CLASSIFICATION OF THE NEXT HIGHER CLASSIFIABLE ASSEMBLY.			

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APP Key	MRC	Mode Code	Requirements								
Reply Instructions: Enter the name of the next higher classifiable assembly in clear text. (e.g., ZZZVGFUEL SYSTEM, GASOLINE ENGINE, NONAIRCRAFT*)											
ALL											
HZRD	D		HAZARDOUS SUBSTANCES								
Definition: THE SUBSTANCES AND/OR MATERIALS CONTAINED IN THE ITEM THAT HAVE BEEN IDENTIFIED AS HAZARDOUS OR ENVIRONMENTALLY DAMAGING BY THE ENVIRONMENTAL PROTECTION AGENCY OR OTHER AUTHORIZED GOVERNMENT AGENCY.											
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., HZRDDHAZ008*; HZRDDHAZ008\$\$DHAZ035*)											
<table><thead><tr><th><u>REPLY CODE</u></th><th><u>REPLY (HZ00)</u></th></tr></thead><tbody><tr><td>HAZ008</td><td>CADMIUM</td></tr><tr><td>HAZ029</td><td>LEAD</td></tr><tr><td>HAZ035</td><td>RADIOACTIVE</td></tr></tbody></table>				<u>REPLY CODE</u>	<u>REPLY (HZ00)</u>	HAZ008	CADMIUM	HAZ029	LEAD	HAZ035	RADIOACTIVE
<u>REPLY CODE</u>	<u>REPLY (HZ00)</u>										
HAZ008	CADMIUM										
HAZ029	LEAD										
HAZ035	RADIOACTIVE										
ALL											
SHPN	A		DOT PROPER SHIPPING NAME								
Definition: THE PROPER SHIPPING NAME AS IDENTIFIED BY THE DEPARTMENT OF TRANSPORTATION (DOT) AND LISTED IN THE TITLE 49 CODE OF FEDERAL REGULATIONS (CFR), PART 172, HAZARDOUS MATERIALS TABLE.											
Reply Instructions: Enter the applicable proper shipping name as identified in Title 49 CFR, Part 172, Hazardous Materials Table 172.101 and referenced paragraphs. (e.g., SHPNACADMIUM*; SHPNACADMIUM\$\$ARADIOACTIVE*)											
ALL											
DENN	A		DOT IDENTIFICATION NUMBER								

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APP Key	MRC	Mode Code	Requirements		
Definition: THE IDENTIFICATION NUMBER ASSIGNED BY THE DEPARTMENT OF TRANSPORTATION (DOT) TO EACH PROPER SHIPPING NAME. IDENTIFICATION NUMBERS PRECEDED BY THE LETTERS "UN" ARE ASSOCIATED WITH INTERNATIONAL AS WELL AS DOMESTIC TRANSPORTATION AND THOSE PRECEDED BY THE LETTERS "NA" ARE NOT RECOGNIZED FOR INTERNATIONAL TRANSPORTATION OF HAZARDOUS MATERIALS (DANGEROUS GOODS) EXCEPT TO AND FROM THE UNITED STATES AND CANADA.					
Reply Instructions: Enter the applicable alpha-numeric Identification Number assigned to the proper shipping name as appears in the Title 49 Code of Federal Regulations, Part 172, Hazardous Materials Tables. (e.g., DENNAUN2212*; DENNANA1759*)					
ALL					
WLBL	A	DOT WARNING LABEL CODE			
Definition: THE WARNING LABEL CODE ASSIGNED BY THE DEPARTMENT OF TRANSPORTATION (DOT) TO EACH PACKAGE OR CONTAINMENT DEVICE OFFERED FOR TRANSPORTATION OF A HAZARDOUS MATERIAL WHICH MEETS ONE OR MORE HAZARD CLASS DEFINITIONS IN ACCORDANCE WITH THE TITLE 49 CODE OF FEDERAL REGULATIONS (CFR), PART 172, HAZARDOUS MATERIALS TABLE.					
Reply Instructions: Enter the applicable numeric or alpha-numeric labeling requirements as appears in the DOT Title 49 CFR, Part 172, Hazardous Materials Table. For items requiring more than one label, enter the primary label first. (e.g., WLBLACCLASS 9*; WLBLACCORROSIVE*; WLBLACCORROSIVE\$\$AFLAMMABLE LIQUID*)					
ALL *					
CXY	G	PART NAME ASSIGNED BY CONTROLLING AGENCY			
Definition: THE NAME ASSIGNED TO THE ITEM BY THE GOVERNMENT AGENCY OR COMMERCIAL ORGANIZATION CONTROLLING THE DESIGN OF THE ITEM.					
Reply Instructions: Enter the reply in clear text. (e.g., CXYGLINE PROCESSOR CONTROL BOARD*)					

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Table 1 - MATERIALS	
MATERIALS	
<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ALC000	ALUMINUM
AL0000	ALUMINUM ALLOY
AL0276	ALUMINUM ALLOY, QQ-A-225/5, ALLOY 2017, T4
AL0130	ALUMINUM ALLOY, QQ-A-225/6
AL0293	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061, T6
AL0935	ALUMINUM ALLOY, QQ-A-250/8, H34
AL1012	ALUMINUM ALLOY, QQ-A-250/8, 5052, H32
AL0387	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, T6
AL0431	ALUMINUM ALLOY, QQ-A-367, COMP 6061, T6
AL1722	ALUMINUM ALLOY, WW-T-700/6, ALLOY 6061, T6
AL0629	ALUMINUM ALLOY, 6061, T6
AAAAAA	ANY ACCEPTABLE
BC0025	BERYLLIUM COPPER ALLOY, QQ-C-530, COND 1/2 HARD
BC0008	BERYLLIUM COPPER, QQ-C-533, COMP 1/2H
BR0000	BRASS
BR0076	BRASS, QQ-B-613, ALLOY 230, 1/2H
BR0079	BRASS, QQ-B-613, ALLOY 240, 1/2H
BR0083	BRASS, QQ-B-613, ALLOY 260, 1/2H
BR0089	BRASS, QQ-B-613, ALLOY 268, 1/2H
BR0095	BRASS, QQ-B-613, ALLOY 342, 1/2H
BR0098	BRASS, QQ-B-613, ALLOY 353, 1/2H
BR0041	BRASS, QQ-B-626, COMP 22, 1/2H
CJ0000	CERAMIC
CU0000	COPPER
CU0014	COPPER, QQ-C-576
FGAQ00	FIBERGLASS CLOTH, NEOPRENE COATED
FGA000	FIBERGLASS, EPOXY
FEX000	IRON ALLOY

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
FE0040	IRON, MALLEABLE, QQ-I-666, GRADE 1
FE0041	IRON, MALLEABLE, QQ-I-666, GRADE 1G
FE0042	IRON, MALLEABLE, QQ-I-666, GRADE 2
FE0086	IRON, MALLEABLE, QQ-I-666, GRADE 2G
ME0000	METAL Metallic (use REPLY CODE ME0000)
NC0003	NICKEL-COPPER ALLOY, QQ-N-281, CLASS A
NF0091	NICKEL, QQ-N-281, CLASS A
PZ0000	PHOSPHOR BRONZE
PZ0023	PHOSPHOR BRONZE, QQ-B-330, COMP A
PZ0018	PHOSPHOR BRONZE, QQ-B-750, COMP A, HARD
PZ0017	PHOSPHOR BRONZE, QQ-B-750, COMP A, SOFT
PZ0020	PHOSPHOR BRONZE, QQ-B-750, COMP B, HARD
PZ0022	PHOSPHOR BRONZE, QQ-B-750, COMP D, HARD
PZ0021	PHOSPHOR BRONZE, QQ-B-750, COMP D, SOFT
PC0000	PLASTIC
PC0006	PLASTIC, DIALLYL PHTHALATE, MIL-M-14, TYPE MDG
PC0002	PLASTIC, DIALLYL PHTHALATE, MIL-M-14, TYPE SDG
PC0004	PLASTIC, DIALLYL PHTHALATE, MIL-M-14, TYPE SDI-5
PC0005	PLASTIC, DIALLYL PHTHALATE, MIL-M-14, TYPE SDI-30
PCP000	PLASTIC, EPOXY
PCAAAT	PLASTIC, EPOXY RESIN
PC0189	PLASTIC, L-P-389, TYPE 2
PC0888	PLASTIC, L-P-403, TYPE 1, CLASS 1
PC0870	PLASTIC, L-P-403, TYPE 1, CLASS 2
PC0871	PLASTIC, L-P-403, TYPE 2, CLASS 1
PC0872	PLASTIC, L-P-403, TYPE 2, CLASS 3
PC0500	PLASTIC, L-P-403, TYPE 3, CLASS 1
PC0501	PLASTIC, L-P-403, TYPE 3, CLASS 2
PC0873	PLASTIC, L-P-403, TYPE 3, CLASS 3
PC0874	PLASTIC, L-P-403, TYPE 4, CLASS 1
PC0875	PLASTIC, L-P-403, TYPE 4, CLASS 2
PC0876	PLASTIC, L-P-403, TYPE 4, CLASS 3
PC0877	PLASTIC, L-P-403, TYPE 4, CLASS 4
PC0878	PLASTIC, L-P-403, TYPE 5
PCM000	PLASTIC, MELAMINE
PC2745	PLASTIC, MIL-M-14, TYPE SDG-F
PCAAB0	PLASTIC, PHENOLIC RESIN, NYLON FABRIC BASE
PCCR00	PLASTIC, POLYETHYLENE
PCAF00	PLASTIC, POLYPROPYLENE
PCCD00	PLASTIC, POLYSULFONE
PCAHO0	PLASTIC, POLYTETRAFLUOROETHYLENE
PCAOK0	PLASTIC, POLYVINYL CHLORIDE
PCEEEF	PLASTIC SHEET, EPOXY, GLASS FABRIC BASE
PC0095	PLASTIC, SILICONE, MIL-M-14, TYPE MSG
PC0096	PLASTIC, SILICONE, MIL-M-14, TYPE MSI-30
PC0886	PLASTIC, THERMOSETTING, L-P-516, TYPE E-2
PC0884	PLASTIC, THERMOSETTING, L-P-516, TYPE G-1

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
PC0885	PLASTIC, THERMOSETTING, L-P-516, TYPE G-3
PL0000	POLYAMIDE NYLON
SL0012	SILICONE RUBBER, ZZ-R-765, CLASS 2A, GRADE 50
SL0013	SILICONE RUBBER, ZZ-R-765, CLASS 2A, GRADE 60
SL0017	SILICONE RUBBER, ZZ-R-765, CLASS 2B, GRADE 50
SL0018	SILICONE RUBBER, ZZ-R-765, CLASS 2B, GRADE 60
SL0022	SILICONE RUBBER, ZZ-R-765, CLASS 3, GRADE 50
SL0023	SILICONE RUBBER, ZZ-R-765, CLASS 3, GRADE 60
ST0000	STEEL
STB000	STEEL, CORROSION RESISTING
STAJ00	STEEL, HARDENED, COLD ROLLED
ST6555	STEEL, MIL-S-4043, TYPE 304
ST1778	STEEL, QQ-S-763, CLASS 303, COND A
ST2350	STEEL, QQ-S-763, CLASS 316L
STD000	STEEL, STAINLESS

Table 2 - SURFACE TREATMENTS
SURFACE TREATMENTS

<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AN0000	ANODIZED
AN0003	ANODIZED, MIL-A-8625, TYPE 1
AN0009	ANODIZED, MIL-A-8625, TYPE 3, CLASS 1
AN0010	ANODIZED, MIL-A-8625, TYPE 3, CLASS 2
AAAAAA	ANY ACCEPTABLE
CDR000	CADMIUM PLATED
CD0004	CADMIUM, QQ-P-416, TYPE 1, CLASS 1
CD0005	CADMIUM, QQ-P-416, TYPE 1, CLASS 2
CD0006	CADMIUM, QQ-P-416, TYPE 1, CLASS 3
CD0007	CADMIUM, QQ-P-416, TYPE 2, CLASS 1
CD0008	CADMIUM, QQ-P-416, TYPE 2, CLASS 2
CD0009	CADMIUM, QQ-P-416, TYPE 2, CLASS 3
CD0010	CADMIUM, QQ-P-416, TYPE 3, CLASS 1
CD0012	CADMIUM, QQ-P-416, TYPE 3, CLASS 3
CD0011	CADMIUM, QQ-P-516, TYPE 3, CLASS 2
CN0000	CHROMATE
CR0027	CHROMIUM-NICKEL PLATED, GG-I-526, CLASS 8
CU0000	COPPER
CU0156	COPPER, QQ-W-343, TYPE C
CU0155	COPPER, QQ-W-343, TYPE S
CU0153	COPPER, WW-T-799, TYPE K, CLASS 3
CU0154	COPPER, WW-T-799, TYPE L, CLASS 3
EN0000	ENAMEL
ENA000	ENAMEL COATING OVER ZINC COATING
ENAAB0	ENAMEL, DULL GRAY, METALLIC
ENH000	ENAMEL, GRAY
EN0092	ENAMEL, MIL-E-15090

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
EN0038	ENAMEL, MIL-E-15090, CLASS 2
EN0007	ENAMEL, MIL-E-15090, TYPE 1, CLASS 2
EN0051	ENAMEL, MIL-E-15090, TYPE 2
EN0009	ENAMEL, MIL-E-15090, TYPE 2, CLASS 2
EN0010	ENAMEL, MIL-E-15090, TYPE 3, CLASS 1
EN0011	ENAMEL, MIL-E-15090, TYPE 3, CLASS 2
EN0031	ENAMEL, TT-E-516
EN0020	ENAMEL, TT-E-527
EN0014	ENAMEL, TT-E-529, CLASS A
AU0008	GOLD, MIL-G-45204, TYPE 2, CLASS 2
SJ0018	HOT SOLDER DIP, QQ-S-571
LQL000	LACQUER, GRAY
LQ0007	LACQUER, MIL-L-7178
PB0000	LEAD
NFG000	NICKEL PLATED
NF0019	NICKEL, QQ-N-290, CLASS 2, TYPE 5
NF0023	NICKEL, QQ-N-290, CLASS 2, TYPE 6
AN0001	OXIDE FILM, MIL-C-5541
PNG000	PAINT
PN0000	PAINTED
PS0000	PASSIVATED
PC0000	PLASTIC
PCEEEE	PLASTIC, CLEAR EPOXY
PCP000	PLASTIC, EPOXY
FNAH00	PRIMER Primer, MIL-P-6889, Type 1-Canceled (use REPLY CODE FN0036)
FN0017	PRIMER, ZINC-CHROMATE, TT-P-645
FN0036	PRIMER, ZINC-CHROMATE, TT-P-1757
RHA000	RHODIUM PLATED
AGE000	SILVER PLATED
AG0005	SILVER, QQ-S-365, TYPE 1, GRADE A
AG0006	SILVER, QQ-S-365, TYPE 1, GRADE B
AG0007	SILVER, QQ-S-365, TYPE 2, GRADE A
AG0008	SILVER, QQ-S-365, TYPE 2, GRADE B
AG0009	SILVER, QQ-S-365, TYPE 3, GRADE A
AG0010	SILVER, QQ-S-365, TYPE 3, GRADE B
SNAQ00	TIN DIP, HOT
SNAC00	TIN PLATE
SN0004	TIN PLATE, MIL-T-10727, TYPE 1 OR 2
SNF000	TIN PLATED
SN0002	TIN PLATED, MIL-T-10727, TYPE 1
SN0003	TIN PLATED, MIL-T-10727, TYPE 2
TDA000	TINNED
VAB000	VARNISH
ZNAE00	ZINC CHROMATE PRIMER

Table 3 - SECTION DESIGNATIONS
SECTION DESIGNATIONS

<u>REPLY CODE</u>	<u>REPLY (AH19)</u>
CM	ALL SECTIONS
CN	SINGLE SECTION
CP	1ST SECTION
CQ	2ND SECTION
CR	3RD SECTION
CS	4TH SECTION
CT	5TH SECTION
CW	6TH SECTION
CX	7TH SECTION
CY	8TH SECTION
CZ	9TH SECTION
DA	10TH SECTION

Table 4 - SEGMENT DESIGNATIONS
SEGMENT DESIGNATIONS

<u>REPLY CODE</u>	<u>REPLY (AD80)</u>
AQ	ALL SEGMENTS
AR	1ST SEGMENT
AS	2ND SEGMENT
AT	3RD SEGMENT
AW	4TH SEGMENT
AX	5TH SEGMENT
AY	6TH SEGMENT
AZ	7TH SEGMENT
BA	8TH SEGMENT
BB	9TH SEGMENT
BC	10TH SEGMENT
BD	11TH SEGMENT
BE	12TH SEGMENT
BF	13TH SEGMENT
BG	14TH SEGMENT
BH	15TH SEGMENT
BJ	16TH SEGMENT
BK	17TH SEGMENT
BL	18TH SEGMENT
BM	19TH SEGMENT
BN	20TH SEGMENT
BP	21ST SEGMENT
BQ	22ND SEGMENT
BR	23RD SEGMENT
BS	24TH SEGMENT
BT	25TH SEGMENT
BV	26TH SEGMENT

Table 5 - NONDEFINITIVE SPEC/STD DATA
NONDEFINITIVE SPEC/STD DATA

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
AL	ALLOY
AN	ANNEX
AP	APPENDIX
AC	APPLICABILITY CLASS
AR	ARRANGEMENT
AS	ASSEMBLY
AB	ASSORTMENT
BX	BOX
CY	CAPACITY
CA	CASE
CT	CATEGORY
CL	CLASS
CE	CODE
CR	COLOR
CC	COMBINATION CODE
CN	COMPONENT
CP	COMPOSITION
CM	COMPOUND
CD	CONDITION
CS	CONSTRUCTION
DE	DESIGN
DG	DESIGNATOR
DW	DRAWING NUMBER
EG	EDGE
EN	END
FY	FAMILY
FG	FIGURE
FN	FINISH
FM	FORM
FA	FORMULA
GR	GRADE
GP	GROUP
NS	INSERT
TM	ITEM
KD	KIND
KT	KIT
LG	LENGTH
LT	LIMIT
MK	MARK
ML	MATERIAL
MH	MESH
ME	METHOD
MD	MODEL

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<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
MT	MOUNTING
NR	NUMBER
PT	PART
PN	PATTERN
PC	PHYSICAL CONDITION
PS	PIECE
PL	PLAN
PR	POINT
QA	QUALITY
RN	RANGE
RT	RATING
RF	REFERENCE NUMBER
SC	SCHEDULE
SB	SECTION
SL	SELECTION
SE	SERIES
SV	SERVICE
SX	SET
SA	SHADE
SH	SHAPE
SG	SHEET
SZ	SIZE
PZ	SPECIES
SQ	SPECIFICATION SHEET
SD	SPEED
ST	STYLE
SS	SUBCLASS
SF	SUBFORM
SP	SUBTYPE
SN	SURFACE CONDITION
SY	SYMBOL
SM	SYSTEM
TB	TABLE
TN	TANNAGE
TP	TEMPER
TX	TEXTURE
TK	THICKNESS
TT	TREATMENT
TR	TRIM
TY	TYPE
YN	UNIT
VA	VARIETY
WT	WEIGHT
WD	WIDTH

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Table 6 - THREAD SERIES DESIGNATION
THREAD SERIES DESIGNATION

<u>REPLY CODE</u>	<u>REPLY (AH06)</u>
SM	ISO M
SS	ISO S
UN	UN
NC	UNC
NE	UNEF
NF	UNF
NJ	UNJ
JC	UNJC
JE	UNJEF
JF	UNJF
NM	UNM
NS	UNS

Table 7 - RADIONUCLIDES DATA
RADIONUCLIDES DATA

<u>REPLY CODE</u>	<u>REPLY (AN55)</u>	<u>RADIONUCLIDES</u>
AAAY	BERYLLIUM (4)	BE-7
AADJ	GOLD (79)	AU-193
AADK	GOLD (79)	AU-194
AADL	GOLD (79)	AU-195
AADM	GOLD (79)	AU-196
AADN	GOLD (79)	AU-198
AADP	GOLD (79)	AU-199
AAGG	PHOSPHORUS (15)	P-32
AAJN	SILVER (47)	AG-105
AAJP	SILVER (47)	AG-110M
AAJQ	SILVER (47)	AG-111

Table 8 - MOUNTING FACILITIES
MOUNTING FACILITIES

<u>REPLY CODE</u>	<u>REPLY (AM39)</u>
ABC	BRACKET
ABH	CLAMP
AFQ	CONNECTOR
ACR	FLANGE
ABN	LUG
AAD	PIN
ABP	PLUG-IN
ABW	SCREW
APH	SHOCK
ABY	SLOT (open)

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<u>REPLY CODE</u>	<u>REPLY (AM39)</u>
BCX	SLOTTED HOLE
BTE	SPOOL
ACD	TERMINAL
BPA	TERMINAL, WIRE-LEAD
AFA	THREADED BUSHING
AHF	THREADED HOLE
ACH	THREADED INSERT
BTD	THREADED ROD
AET	THREADED STUD
ACQ	UNTHREADED HOLE

Reference Drawing Groups

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REFERENCE DRAWING GROUP A Tables
BODY STYLES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., ARBRJAA0.175*; ARBRJLA25.4*; ARBRJAB2.495\$\$JAC2.503*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ABFY	J	OVERALL DEPTH
ABHE	J	OUTSIDE DIAMETER
ABHP	J	OVERALL LENGTH
ABKK	J	FLANGE DIAMETER
ABMK	J	OVERALL WIDTH
ABPM	J	BODY DIAMETER
ADAQ	J	BODY LENGTH
ADAS	J	BODY INSIDE DIAMETER
ADAT	J	BODY WIDTH
ADMG	J	MOUNTING FLANGE LENGTH
ADUW	J	CENTER HOLE LENGTH
ADUX	J	CENTER HOLE WIDTH
AHSX	J	FLANGE INSIDE WIDTH
AHSY	J	FLANGE INSIDE HEIGHT
AHTD	J	FLANGE DEPTH
ARBR	J	BODY DEPTH
CCDY	J	KNOB WIDTH
CCDZ	J	BRACKET DEPTH
CCFB	J	DISTANCE FROM FLANGE TO BOTTOM OF BODY
CCFC	J	DISTANCE FROM END OF BODY TO CENTER OF SHAFT
CCFD	J	DISTANCE FROM BOTTOM OF BODY TO CENTER OF SHAFT

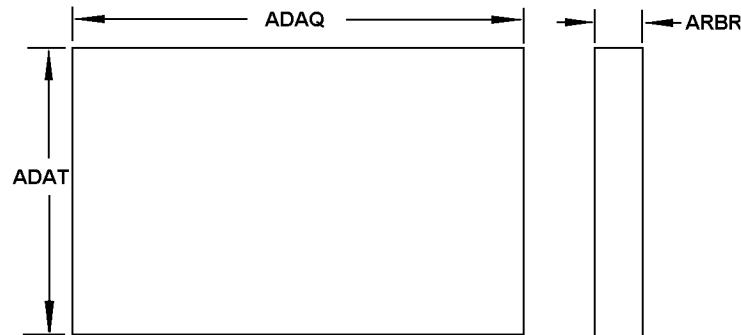
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APPENDIX B

REFERENCE DRAWING GROUP A

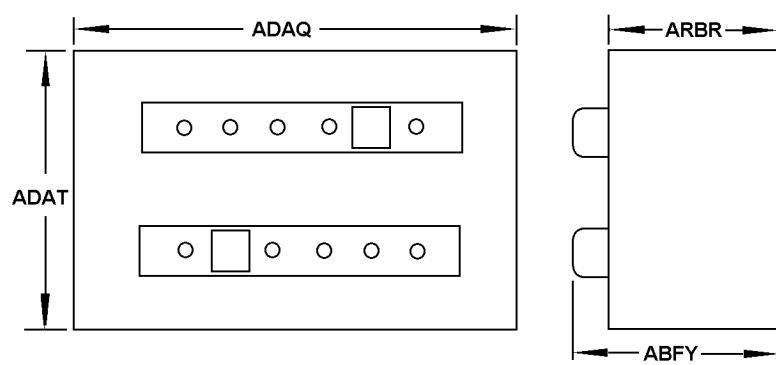
BODY STYLES

1



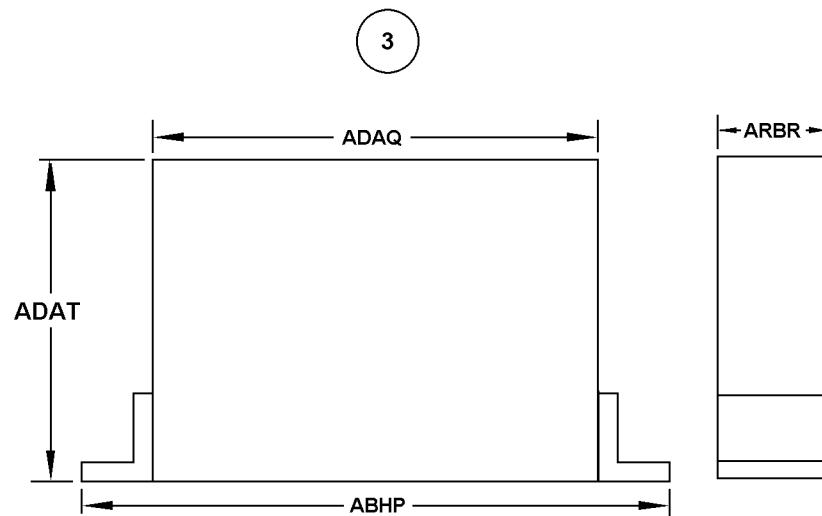
RECTANGULAR

2

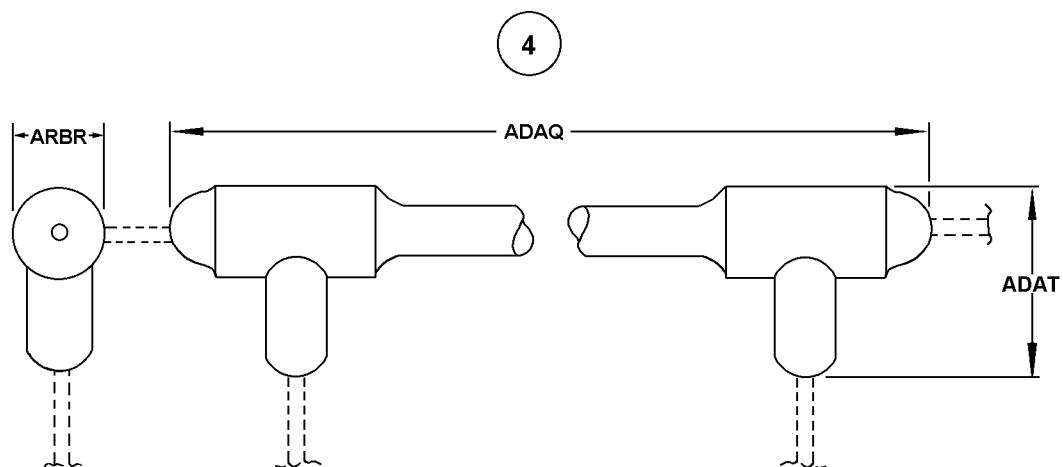


RECTANGULAR, FRONT CONNECTION

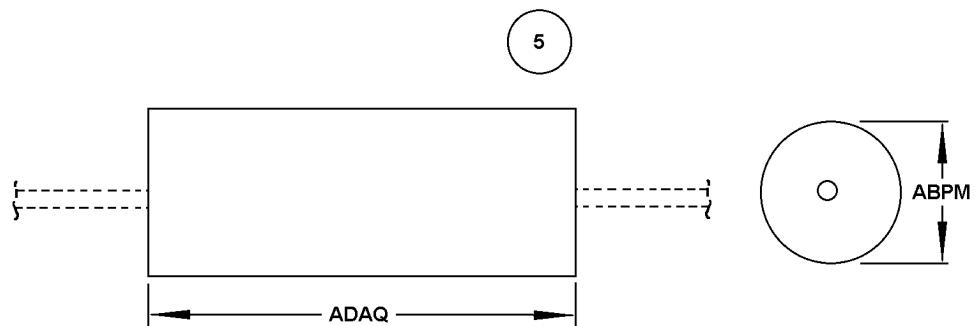
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RECTANGULAR, BRACKETED



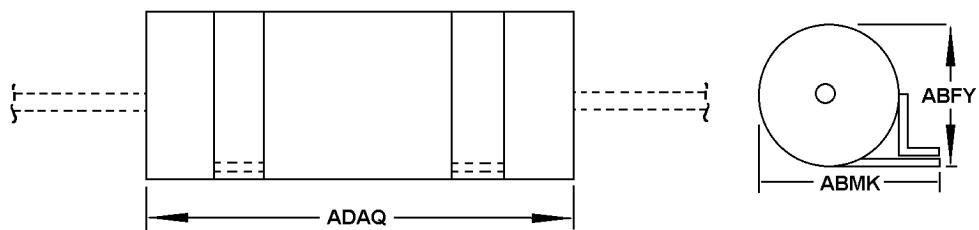
CAPSULE, DIVIDED



CYLINDRICAL

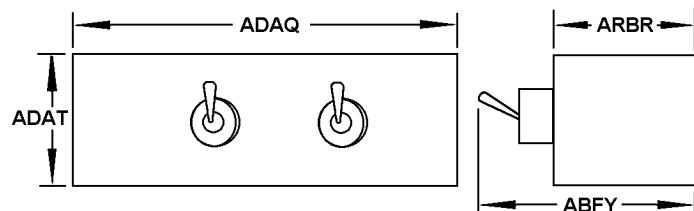
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6



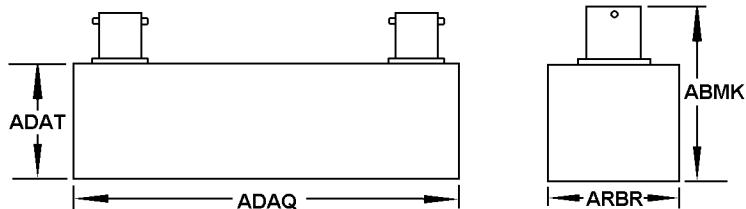
CYLINDRICAL, BRACKETED

7



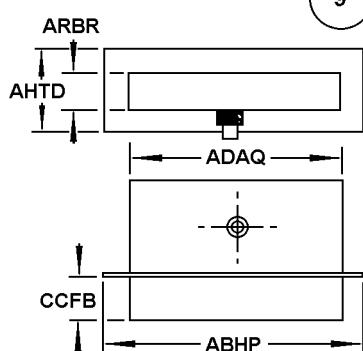
RECTANGULAR, FRONT SWITCH

8



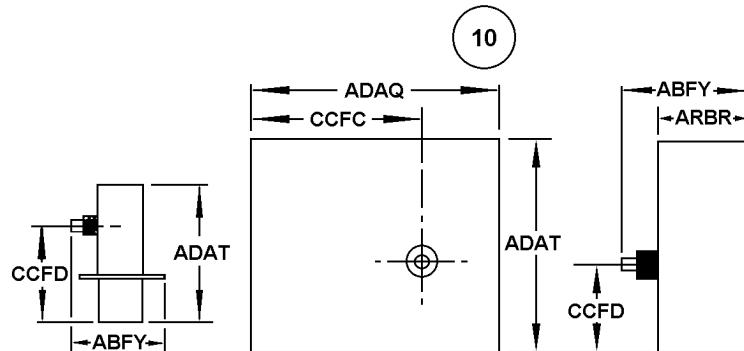
RECTANGULAR, TOP CONNECTION

9



RECTANGULAR, W/ FLANGE AND SHAFT

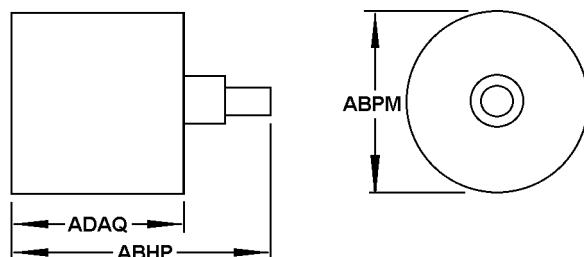
10



RECTANGULAR, W/ SHAFT

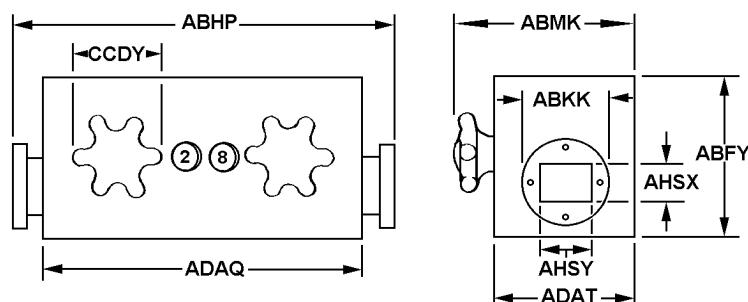
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11



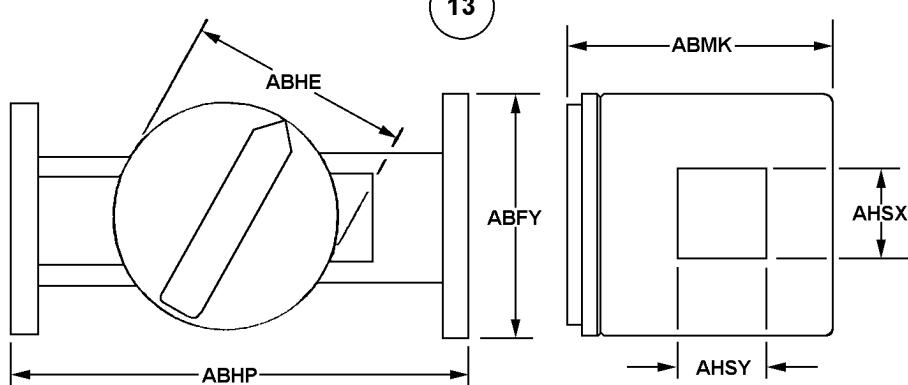
CYLINDRICAL, END POST CONNECTION

12



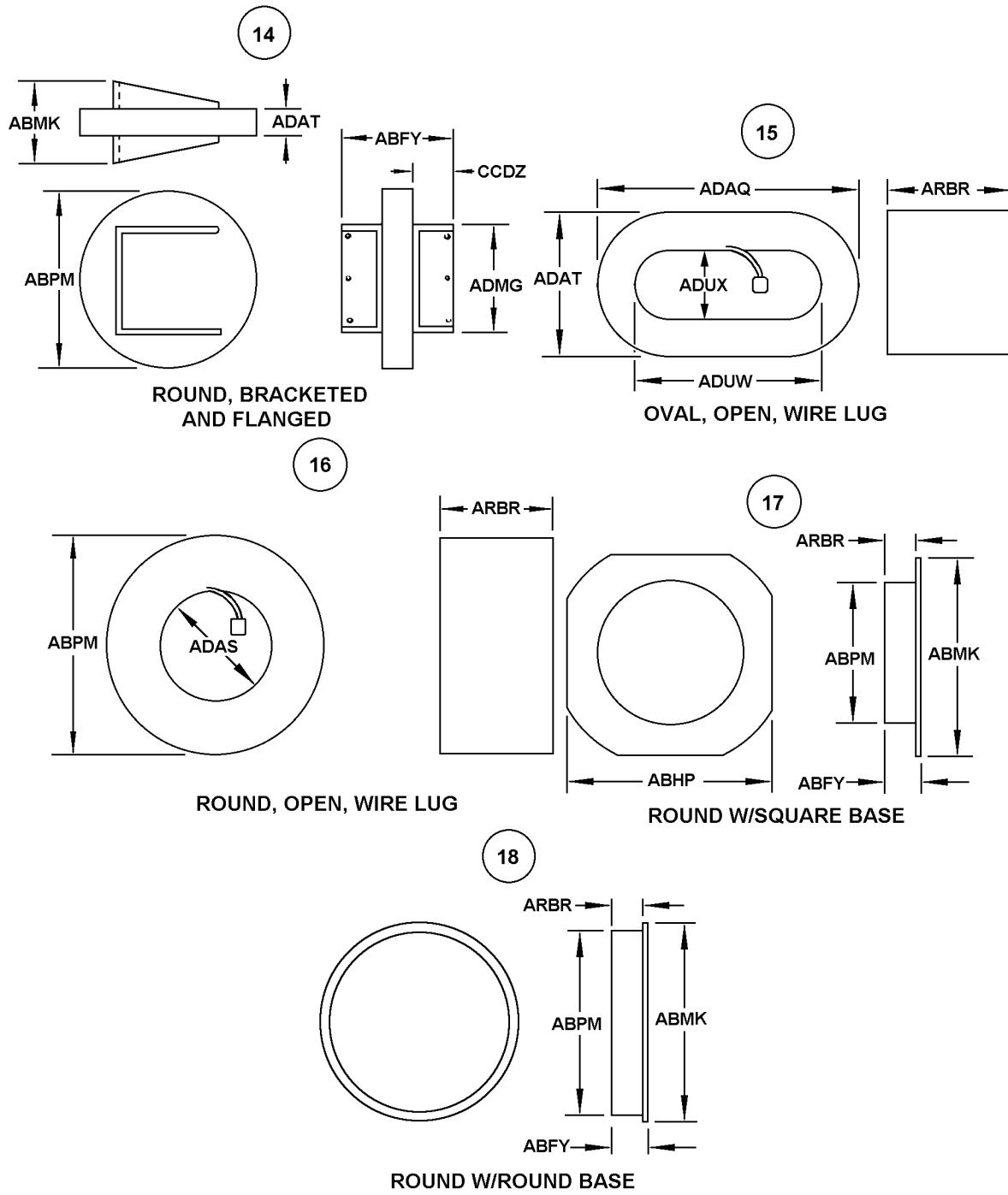
RECTANGULAR, VARIABLE,
WAVEGUIDE CONNECTION

13



OPEN, VARIABLE,
WAVEGUIDE CONNECTION

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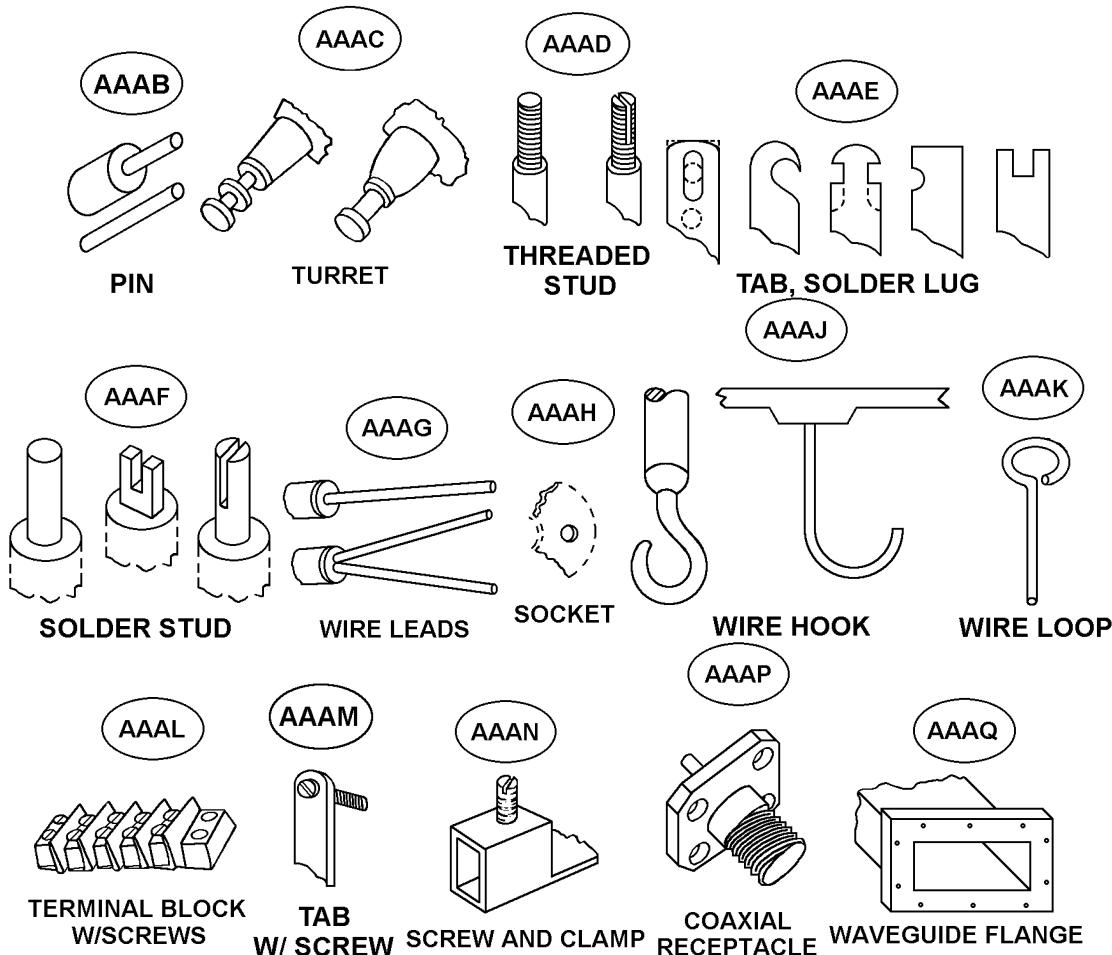


REFERENCE DRAWING GROUP B

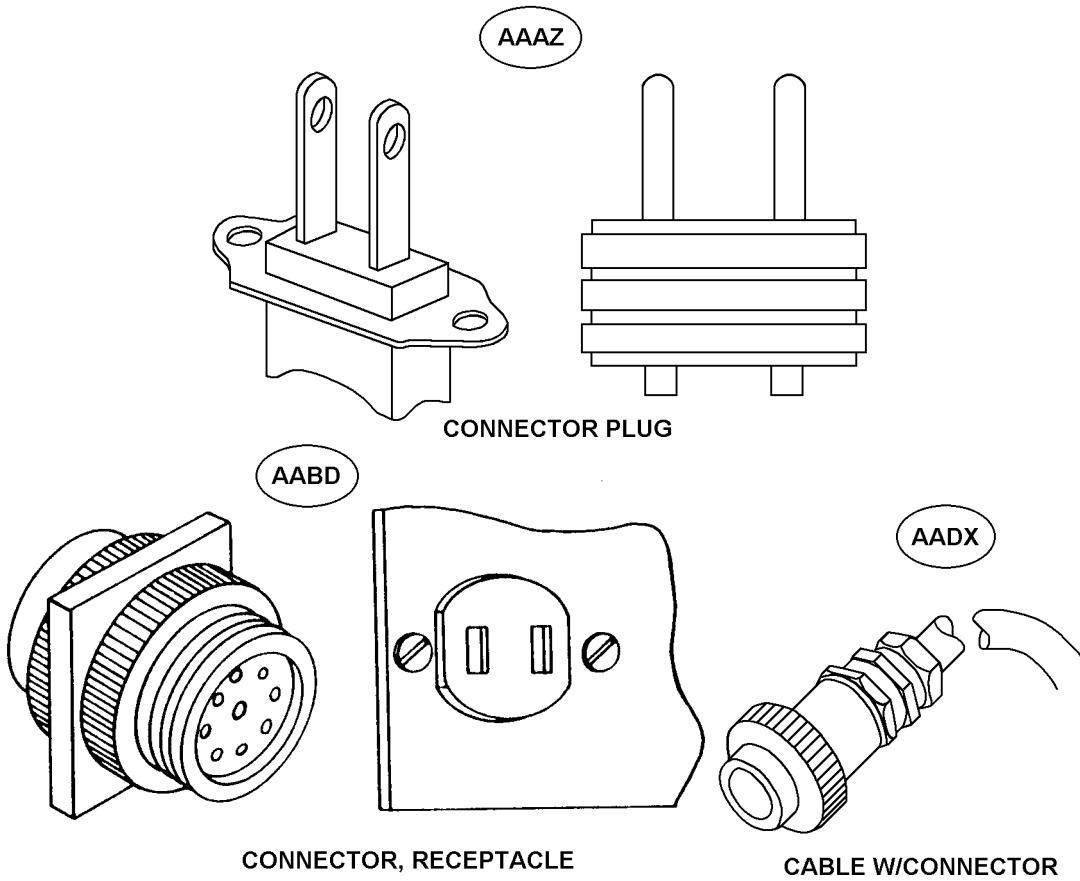
TERMINAL STYLES

(No Requirements)

Note: Uninsulated, solid wire terminals greater than one inch in length shall be considered to be wire lead type terminals.



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REFERENCE DRAWING GROUP D Tables
MOUNTING ARRANGEMENT STYLES

INDEX OF MASTER REQUIREMENT CODES

When selecting a mounting pattern that most nearly corresponds to that of the item being described, orient the item in a position whereby the mounting hole plane is vertical. Rotate the item to the position whereby its mounting hole pattern most nearly corresponds to an illustration mounting pattern.

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., AFDSJAA1.500*; AFDSJLA25.4*; AFDSJAB2.495\$\$JAC2.503*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ABUH	J	MOUNTING HOLE CIRCLE RADIUS
AFDS	J	LONGEST HORIZONTAL DISTANCE BETWEEN MOUNTING CENTERS
AFDT	J	SHORTEST HORIZONTAL DISTANCE BETWEEN MOUNTING CENTERS
AFDU	J	INTERMEDIATE HORIZONTAL DISTANCE BETWEEN MOUNTING CENTERS
AFDV	J	LONGEST VERTICAL DISTANCE BETWEEN MOUNTING CENTERS
AFDW	J	SHORTEST VERTICAL DISTANCE BETWEEN MOUNTING CENTERS

REFERENCE DRAWING GROUP D

MOUNTING ARRANGEMENT STYLES

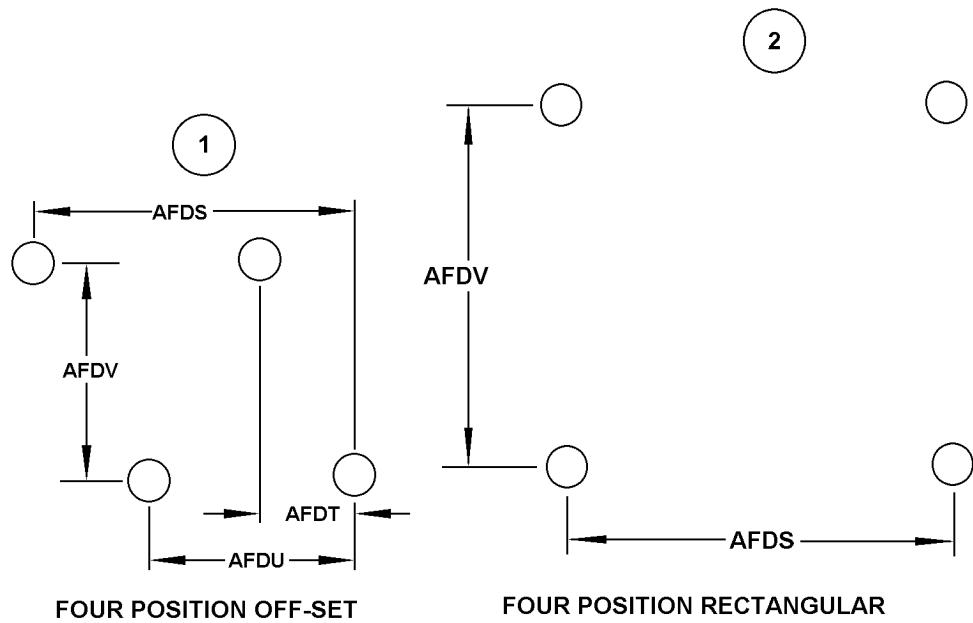
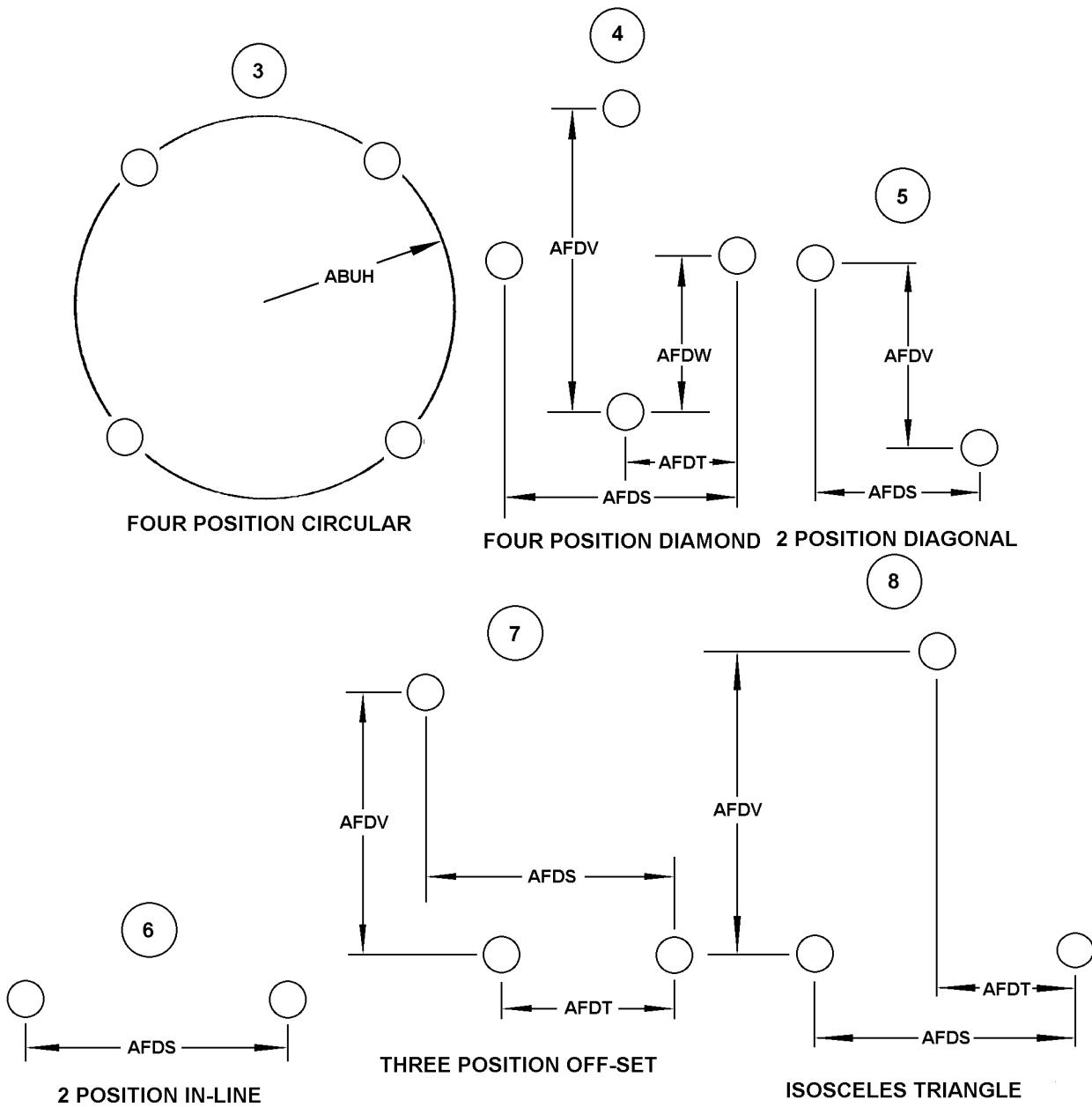


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REFERENCE DRAWING GROUP E Tables
SHAFT STYLES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., ABNCJAA1.500*; ABNCJLA25.4*; ABNCJAB2.495\$\$JAC2.503*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

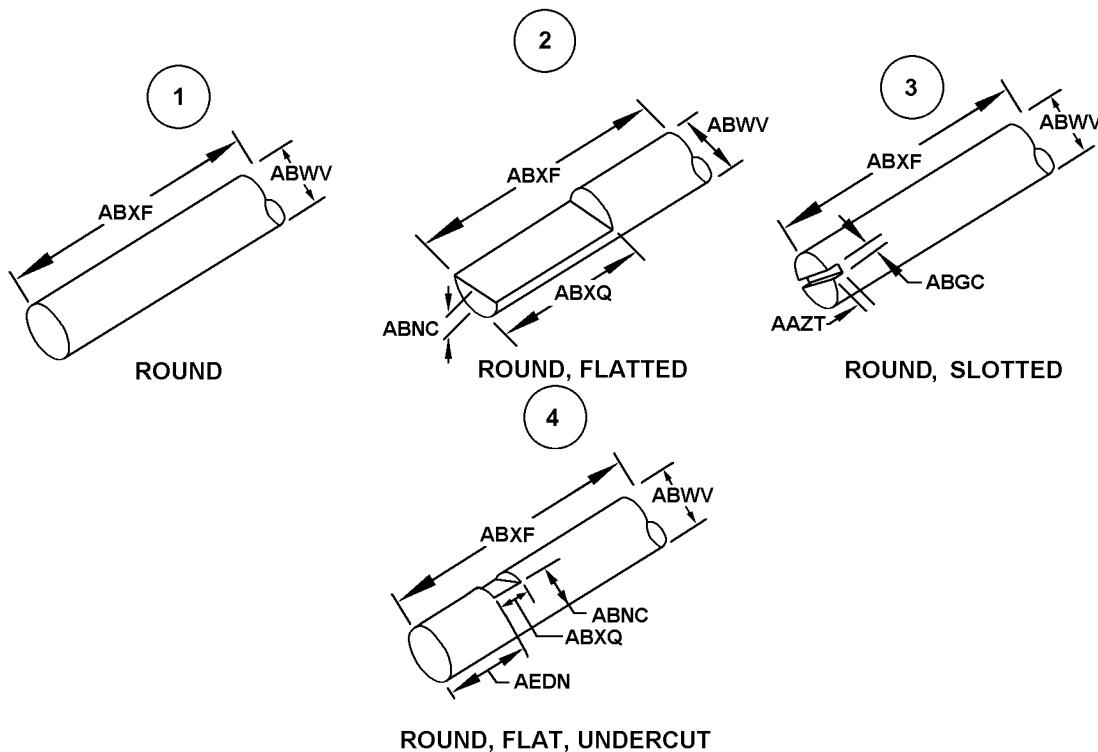
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
AAZT	J	SLOT DEPTH
ABGC	J	SLOT WIDTH
ABNC	J	FLAT HEIGHT
ABWV	J	SHAFT DIAMETER
ABXF	J	SHAFT LENGTH
ABXQ	J	FLATTED PORTION LENGTH
AEDN	J	TIP LENGTH

REFERENCE DRAWING GROUP E

SHAFT STYLES

THE SHAFT STYLES INCLUDED IN THIS GROUP ARE INTENDED TO BE REPRESENTATIVE AND NOT RESTRICTIVE. A DRAWING BEARING A REASONABLE RESEMBLANCE TO AN ITEM TO BE DESCRIBED SHALL BE USED IN LIEU OF ADDING ADDITIONAL STYLES.



Technical Data Tables

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STANDARD FRACTION TO DECIMAL CONVERSION CHART

<u>4ths</u>	<u>8ths</u>	<u>16ths</u>	<u>32nds</u>	<u>64ths</u>	To 3	To 4	<u>4ths</u>	<u>8ths</u>	<u>16ths</u>	<u>32nds</u>	<u>64ths</u>	To 3	To 4		
					.1/64	.016	.0156					.33/64	.516	.5156	
				1/32	----	.031	.0312					17/32	----	.531	.5312
					3/64	.047	.0469					35/64	.547	.5469	
		1/16	----			.062	.0625		9/16	----			.562	.5625	
					5/64	.078	.0781					37/64	.578	.5781	
				3/32	----	.094	.0938					19/32	----	.594	.5938
					7/64	.109	.1094					39/64	.609	.6094	
1/8	----	----	----			.125	.1250	5/8	----	----	----		.625	.6250	
					9/64	.141	.1406					41/64	.641	.6406	
				5/32	----	.156	.1562					21/32	----	.656	.6562
					11/64	.172	.1719					43/64	.672	.6719	
		3/16	----			.188	.1875		11/16	----	----		.688	.6875	
					13/64	.203	.2031					45/64	.703	.7031	
				7/32	----	.219	.2188					23/32	----	.719	.7188
					15/64	.234	.2344					47/64	.734	.7344	
1/4	----	----	----			.250	.2500	3/4	----	----	----		.750	.7500	
					17/64	.266	.2656					49/64	.766	.7656	
				9/32	----	.281	.2812					25/32	----	.781	.7812
					19/64	.297	.2969					51/64	.797	.7969	
		5/16	----			.312	.3125					13/16	----	.812	.8125
					21/64	.328	.3281					53/64	.828	.8281	
				11/32	----	.344	.3438					27/32	----	.844	.8438
					23/64	.359	.3594					55/64	.859	.8594	
3/8	----	----	----			.375	.3750	7/8	----	----	----		.875	.8750	
					25/64	.391	.3906					57/64	.891	.8906	
				13/32	----	.406	.4062					29/32	----	.906	.9062
					27/64	.422	.4219					59/64	.922	.9219	
		7/16	----			.438	.4375					15/16	----	.938	.9375
					29/64	.453	.4531					61/64	.953	.9531	
				15/32	----	.469	.4688					31/32	----	.969	.9688
					31/64	.484	.4844					63/64	.984	.9844	
						.500	.5000						1.000	1.0000	

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CONVERSION TABLE FOR TIME UNITS TO PERCENTAGE

Delay time variation X 100
Rated total delay time

METRIC CONVERSION CHART

<u>ORIGINAL L VALUE</u>	<u>DESIRED VALUE</u>															
Pref ix	Ter a	Gi ga	Me ga	My ria	Kil o	Hec to	Dek ke	*U nit	De ci	Ce nti	Mil li	Mic ro	Na no	Pic o	Fem to	Att o
Pow er																
of <u>10</u>	<u>10</u>	<u>10</u>	<u>106</u>	<u>104</u>	<u>10</u>	<u>3</u>	<u>102</u>	<u>101</u>	<u>100</u>	<u>10-</u> <u>1</u>	<u>10-</u> <u>2</u>	<u>10-</u> <u>3</u>	<u>10-</u> <u>6</u>	<u>10-</u> <u>9</u>	<u>12-</u> <u>12</u>	<u>10-</u> <u>15</u>
Ter a	101 2	3 a d	6 a d	8 ad d	9 a d	10 a d	11 ad	12 ad	13 ad	14 ad	15 ad	18 a d	21 ad	24 ad	27 a d	30 ad
Gig a	109 3	aj	3 a d	5 ad d	6 a d	7 ad d	8 a d	9 a d	10 ad	11 ad	12 ad	15 a d	18 ad	21 ad	24 a d	27 ad
Me ga	106 6	aj 3	aj	2 ad d	3 a d	4 ad d	5 a d	6 a d	7 a d	8 a d	9 a d	12 a d	15 ad	18 ad	21 a d	24 ad
Myr ia	104 8	aj	aj	aj2 d	1 a d	2 ad d	3 a d	4 a d	5 a d	6 a d	7 a d	10 a d	13 ad	16 ad	19 a d	22 ad
Kilo	103 9	aj	aj	aj3 d	aj1 d	1 ad d	2 a d	3 a d	4 a d	5 a d	6 a d	9 ad d	12 ad	15 ad	18 a d	21 ad
Hec to	102 10	aj	aj	aj4 1	aj2 d	aj	1 a d	2 a d	3 a d	4 a d	5 a d	8 ad d	11 ad	14 ad	17 a d	20 ad
Dek a	101 11	aj	aj	aj5 8	aj3 2	aj	aj1 d	1 a d	2 a d	3 a d	4 a d	7 ad d	10 ad	13 ad	16 a d	19 ad
*Un it	100 12	aj	aj	aj6 9	aj4 3	aj	aj2 d	aj1 d	1 a d	2 a d	3 a d	6 ad d	9 a d	12 ad	15 a d	18 ad
Dec i	10- 1	aj	aj	aj7 13	aj5 10	aj	aj3 4	aj2 d	aj1 d	1 a d	2 a d	5 ad d	8 a d	11 ad	14 a d	17 ad
Cen ti	10- 2	aj	aj	aj8 14	aj6 11	aj	aj4 5	aj3 d	aj2 d	aj1 d	1 a d	4 ad d	7 a d	10 ad	13 a d	16 ad
Mill i	10- 3	aj	aj	aj9 15	aj7 12	aj	aj5 6	aj4 d	aj3 d	aj2 d	aj1 d	3 ad d	6 a d	9 a d	12 a d	15 ad
Mic ro	10- 6	aj	aj	aj1 2	aj1 0	aj	aj8 9	aj7 d	aj6 d	aj5 d	aj4 d	aj3 d	3 a d	6 a d	9 ad d	12 ad

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Nan	10-	aj	aj	aj1	aj1	aj	aj1	aj1	aj9	aj8	aj7	aj6	aj3	3 a	6 ad	9 a
o	9	21	18	5	3	12	1	0						d		d
Pico	10-	aj	aj	aj1	aj1	aj	aj1	aj1	aj1	aj1	aj1	aj9	aj6	aj3	3 ad	6 a
	12	24	21	8	6	15	4	3	2	1	0				d	
Fem	10-	aj	aj	aj2	aj1	aj	aj1	aj1	aj1	aj1	aj1	aj1	aj9	aj6	aj3	3 a
to	15	27	24	1	9	18	7	6	5	4	3	2				d
Atto	10-	aj	aj	aj2	aj2	aj	aj2	aj1	aj1	aj1	aj1	aj1	aj9	aj6	aj3	
	18	30	27	4	2	21	0	9	8	7	6	5	2			

* The notation "unit" represents the basic unit of measurement, such as amperes, farads, grams, hertz, meters, ohms, volts, watts, etc.

To convert from one notation (metric or a power of ten) to another, locate the original or given value in the left-hand column. Follow this line horizontally to the vertical column headed by the desired notation. The figure and arrow at the intersection of these two columns indicates the direction and number of places the decimal point is to be moved (e.g., to convert 25,000 kilohertz to megahertz, at the intersection of the horizontal column for kilo and the vertical column for mega find the figure and directional arrow |aj3. Thus, shifting the decimal in 25,000 kilohertz 3 places to the left results in the value of 25 megahertz).

SECTION/SEGMENT DEFINITION AND SEQUENCE DETERMINATION
SECTION SEQUENCE DETERMINATION
SEGMENT SEQUENCE DETERMINATION

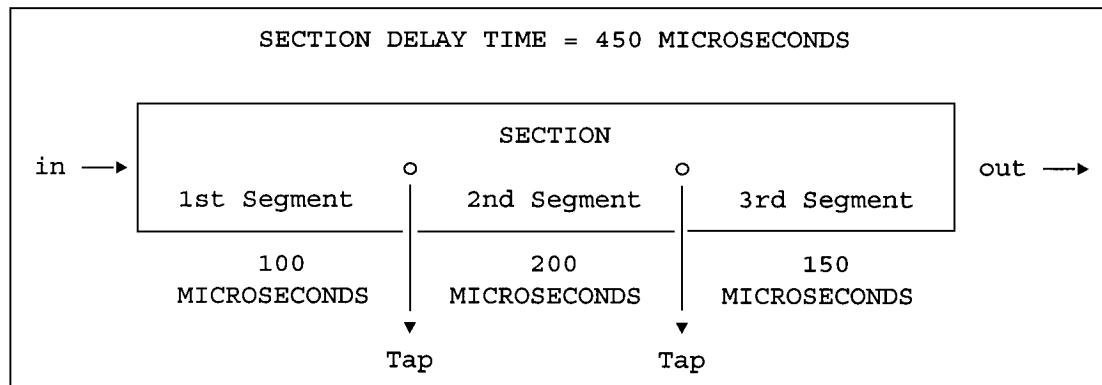
Section sequence designation will be in ascending numeric order in accordance with their "Maximum" or "Nominal Delay Time", i.e., the section with the least delay time will be designated as the 1st SECTION, the section with the next to least delay time will be the 2nd SECTION, etc.

Segment sequence will be determined by the relative physical position of the segments within the section. The end segment with the least "Nominal" or "Maximum Segment Delay Time" will be designated as the 1st SEGMENT. The segment which is electrically adjacent to the 1st SEGMENT will be designated as the 2nd SEGMENT. The segment electrically adjacent to the 2nd will be the 3rd, and so on, progressively down the electrical length of the section. The designation of an input or output terminal will have no bearing on the segment sequencing.

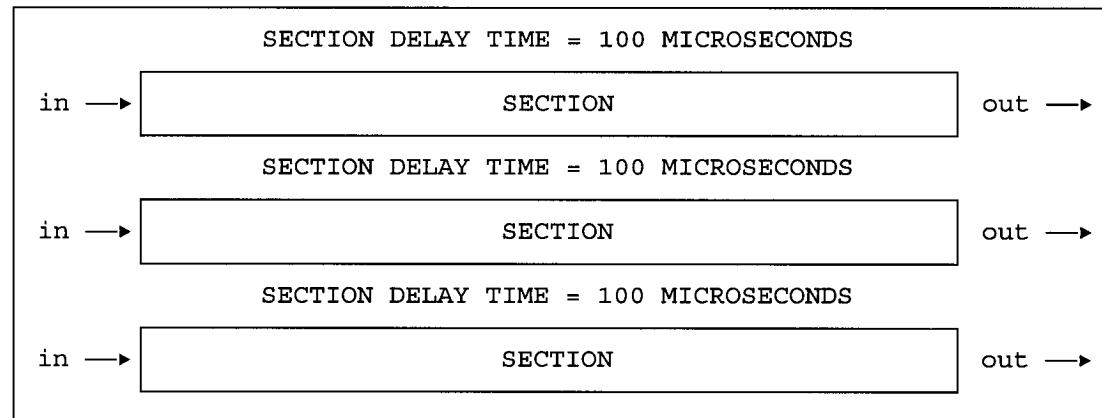
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SECTION: That part of a DELAY LINE or NETWORK, PULSE DELAY which has one input and at least one output.

SEGMENT: That part of a SECTION which is between taps or between the end of the SECTION and the tap nearest the end.

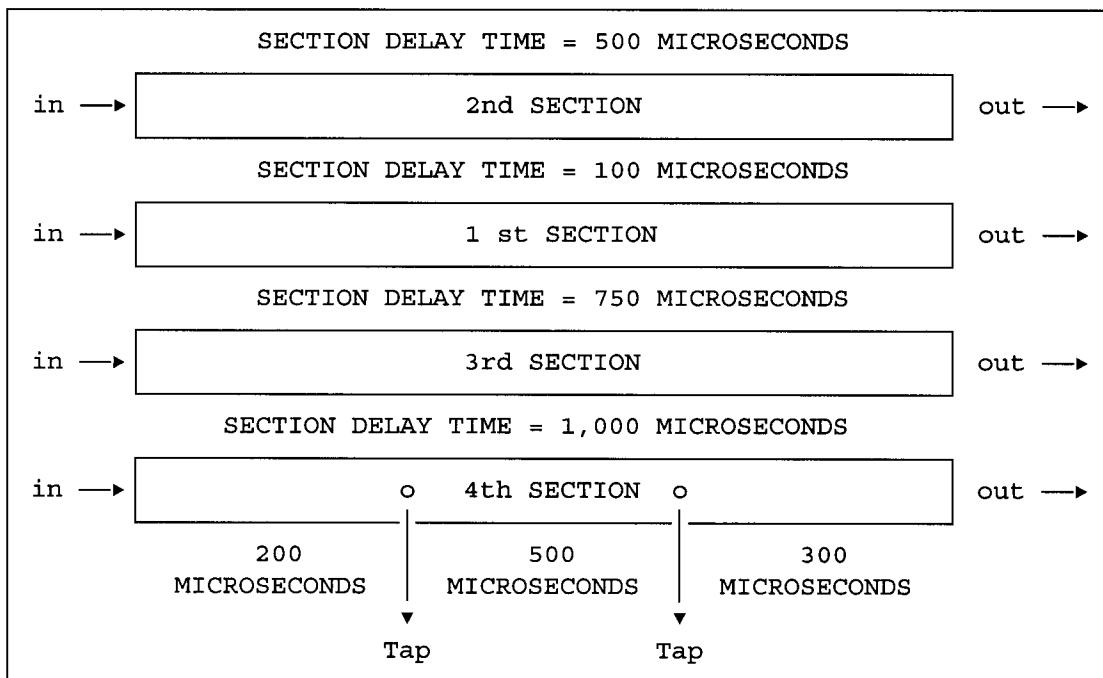


EXAMPLE 1. ONE SECTION type with 1st, 2nd and 3rd SEGMENTS.



EXAMPLE 2. Typical ALL SECTION type.

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EXAMPLE 3. Section DELAY LINE with 3 Segments in the 4th Section

THREAD SIZE/SERIES

<u>Nominal Size and Threads Per Inch</u>	<u>Thread Series</u>
0-80 OR .060-80	UNF
1-64 OR .073-64	UNC
1-72 OR .073-72	UNF
2-56 OR .086-56	UNC
2-64 OR .086-64	UNF
3-48 OR .099-48	UNC
3-56 OR .099-56	UNF
4-40 OR .112-40	UNC
4-48 OR .112-48	UNF
5-40 OR .125-40	UNC
5-44 OR .125-44	UNF
6-32 OR .138-32	UNC
6-40 OR .138-40	UNF
8-32 OR .164-32	UNC
8-36 OR .164-36	UNF
10-24 OR .190-24	UNC
10-28 OR .190-28	UNS
10-32 OR .190-32	UNF

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10-36 OR .190-36	UNS
10-40 OR .190-40	UNS
10-48 OR .190-48	UNS
10-56 OR .190-56	UNS
12-24 OR .216-24	UNC
12-28 OR .216-28	UNF
12-32 OR .216-32	UNEF
12-36 OR .216-36	UNS
12-40 OR .216-40	UNS
12-48 OR .216-48	UNS
12-56 OR .216-56	UNS
1/4-20 OR .250-20	UNC
1/4-24 OR .250-24	UNS
1/4-27 OR .250-27	UNS
1/4-28 OR .250-28	UNF
1/4-32 OR .250-32	UNEF
1/4-36 OR .250-36	UNS
1/4-40 OR .250-40	UNS
1/4-48 OR .250-48	UNS
1/4-56 OR .250-56	UNS
5/16-18 OR .3125-18	UNC
5/16-20 OR .3125-20	UN
5/16-24 OR .3125-24	UNF
5/16-27 OR .3125-27	UNS
5/16-28 OR .3125-28	UN
5/16-32 OR .3125-32	UNEF
5/16-36 OR .3125-36	UNS
5/16-40 OR .3125-40	UNS
5/16-48 OR .3125-48	UNS
3/8-16 OR .375-16	UNC
3/8-18 OR .375-18	UNS
3/8-20 OR .375-20	UN
3/8-24 OR .375-24	UNF
3/8-27 OR .375-27	UNS
3/8-28 OR .375-28	UN
3/8-32 OR .375-32	UNEF
3/8-36 OR .375-36	UNS
3/8-40 OR .375-40	UNS
.390-27	UNS
7/16-14 OR .4375-14	UNC
7/16-16 OR .4375-16	UN
7/16-18 OR .4375-18	UNS
7/16-20 OR .4375-20	UNF
7/16-24 OR .4375-24	UNS
7/16-27 OR .4375-27	UNS
7/16-28 OR .4375-28	UNEF

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7/16-32 OR .4375-32	UN
7/16-36 OR .4375-36	UNS
7/16-40 OR .4375-40	UNS
1/2-12 OR .500-12	UNS
1/2-13 OR .500-13	UNC
1/2-14 OR .500-14	UNS
1/2-16 OR .500-16	UN
1/2-18 OR .500-18	UNS
1/2-20 OR .500-20	UNF
1/2-24 OR .500-24	UNS
1/2-27 OR .500-27	UNS
1/2-28 OR .500-28	UNEF
1/2-32 OR .500-32	UN
1/2-36 OR .500-36	UNS
1/2-40 OR .500-40	UNS
9/16-12 OR .5625-12	UNC
9/16-14 OR .5625-14	UNS
9/16-16 OR .5625-16	UN
9/16-18 OR .5625-18	UNF
9/16-20 OR .5625-20	UN
9/16-24 OR .5625-24	UNEF
9/16-27 OR .5625-27	UNS
9/16-28 OR .5625-28	UN
9/16-32 OR .5625-32	UN
9/16-36 OR .5625-36	UNS
9/16-40 OR .5625-40	UNS
5/8-11 OR .625-11	UNC
5/8-12 OR .625-12	UN
5/8-14 OR .625-14	UNS
5/8-16 OR .625-16	UN
5/8-18 OR .625-18	UNF
5/8-24 OR .625-24	UNEF
5/8-27 OR .625-27	UNS
5/8-28 OR .625-28	UN
5/8-32 OR .625-32	UN
5/8-36 OR .625-36	UNS
11/16-12 OR .6875-12	UN
11/16-16 OR .6875-16	UN
11/16-20 OR .6875-20	UN
11/16-24 OR .6875-24	UNEF
11/16-28 OR .6875-28	UN
11/16-32 OR .6875-32	UN
3/4-10 OR .750-10	UNC
3/4-12 OR .750-12	UN
3/4-14 OR .750-14	UNS
3/4-16 OR .750-16	UNF

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3/4-18 OR .750-18	UNS
3/4-20 OR .750-20	UNEF
3/4-24 OR .750-24	UNS
3/4-27 OR .750-27	UNS
3/4-28 OR .750-28	UN
3/4-32 OR .750-32	UN
3/4-36 OR .750-36	UNS
3/4-40 OR .750-40	UNS
13/16-12 OR .8125-12	UN
13/16-16 OR .8125-16	UN
13/16-20 OR .8125-20	UNEF
13/16-28 OR .8125-28	UN
13/16-32 OR .8125-32	UN
7/8-9 OR .875-9	UNC
7/8-10 OR .875-10	UNS
7/8-12 OR .875-12	UN
7/8-14 OR .875-14	UNF
7/8-16 OR .875-16	UN
7/8-18 OR .875-18	UNS
7/8-20 OR .875-20	UNEF
7/8-24 OR .875-24	UNS
7/8-27 OR .875-27	UNS
7/8-28 OR .875-28	UN
7/8-32 OR .875-32	UN
7/8-36 OR .875-36	UNS
7/8-40 OR .875-40	UNS
15/16-12 OR .9375-12	UN
15/16-16 OR .9375-16	UN
15/16-20 OR .9375-20	UNEF
15/16-28 OR .9375-28	UN
15/16-32 OR .9375-32	UN
1-8 OR 1.000-8	UNC
1-10 OR 1.000-10	UNS
1-12 OR 1.000-12	UNF
1-14 OR 1.000-14	UNS
1-16 OR 1.000-16	UN
1-18 OR 1.000-18	UNS
1-20 OR 1.000-20	UNEF
1-24 OR 1.000-24	UNS
1-27 OR 1.000-27	UNS
1-28 OR 1.000-28	UN
1-32 OR 1.000-32	UN
1-36 OR 1.000-36	UNS
1-40 OR 1.000-40	UNS
1 1/16-8 OR 1.0625-8	UN
1 1/16-12 OR 1.0625-12	UN

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1 1/16-16 OR 1.0625-16	UN
1 1/16-18 OR 1.0625-18	UNEF
1 1/16-20 OR 1.0625-20	UN
1 1/16-28 OR 1.0625-28	UN
1 1/8-7 OR 1.125-7	UNC
1 1/8-8 OR 1.125-8	UN
1 1/8-10 OR 1.125-10	UNS
1 1/8-12 OR 1.125-12	UNF
1 1/8-14 OR 1.125-14	UNS
1 1/8-16 OR 1.125-16	UN
1 1/8-18 OR 1.125-18	UNEF
1 1/8-20 OR 1.125-20	UN
1 1/8-24 OR 1.125-24	UNS
1 1/8-28 OR 1.125-28	UN
1 3/16-8 OR 1.188-8	UN
1 3/16-12 OR 1.188-12	UN
1 3/16-16 OR 1.188-16	UN
1 3/16-18 OR 1.188-18	UNEF
1 3/16-20 OR 1.188-20	UN
1 3/16-28 OR 1.188-28	UN
1 1/4-7 OR 1.250-7	UNC
1 1/4-8 OR 1.250-8	UN
1 1/4-10 OR 1.250-10	UNS
1 1/4-12 OR 1.250-12	UNF
1 1/4-14 OR 1.250-14	UNS
1 1/4-16 OR 1.250-16	UN
1 1/4-18 OR 1.250-18	UNEF
1 1/4-20 OR 1.250-20	UN
1 1/4-24 OR 1.250-24	UNS
1 1/4-28 OR 1.250-28	UN
1 5/16-8 OR 1.312-8	UN
1 5/16-12 OR 1.312-12	UN
1 5/16-16 OR 1.312-16	UN
1 5/16-18 OR 1.312-18	UNEF
1 5/16-20 OR 1.312-20	UN
1 5/16-28 OR 1.312-28	UN
1 3/8-6 OR 1.375-6	UNC
1 3/8-8 OR 1.375-8	UN
1 3/8-10 OR 1.375-10	UNS
1 3/8-12 OR 1.375-12	UNF
1 3/8-14 OR 1.375-14	UNS
1 3/8-16 OR 1.375-16	UN
1 3/8-18 OR 1.375-18	UNEF
1 3/8-20 OR 1.375-20	UN
1 3/8-24 OR 1.375-24	UNS
1 3/8-28 OR 1.375-28	UN

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1 7/16-6 OR 1.4375-6	UN
1 7/16-8 OR 1.438-8	UN
1 7/16-12 OR 1.438-12	UN
1 7/16-16 OR 1.438-16	UN
1 7/16-18 OR 1.438-18	UNEF
1 7/16-20 OR 1.438-20	UN
1 7/16-28 OR 1.438-28	UN
1 1/2-6 OR 1.500-6	UNC
1 1/2-8 OR 1.500-8	UN
1 1/2-10 OR 1.500-10	UNS
1 1/2-12 OR 1.500-12	UNF
1 1/2-14 OR 1.500-14	UNS
1 1/2-16 OR 1.500-16	UN
1 1/2-18 OR 1.500-18	UNEF
1 1/2-20 OR 1.500-20	UN
1 1/2-24 OR 1.500-24	UNS
1 1/2-28 OR 1.500-28	UN
1 9/16-6 OR 1.562-6	UN
1 9/16-8 OR 1.562-8	UN
1 9/16-12 OR 1.562-12	UN
1 9/16-16 OR 1.562-16	UN
1 9/16-18 OR 1.562-18	UNEF
1 9/16-20 OR 1.562-20	UN
1 5/8-6 OR 1.625-6	UN
1 5/8-8 OR 1.625-8	UN
1 5/8-10 OR 1.625-10	UNS
1 5/8-12 OR 1.625-12	UN
1 5/8-14 OR 1.625-14	UNS
1 5/8-16 OR 1.625-16	UN
1 5/8-18 OR 1.625-18	UNEF
1 5/8-20 OR 1.625-20	UN
1 5/8-24 OR 1.625-24	UNS
1 11/16-6 OR 1.688-6	UN
1 11/16-8 OR 1.688-8	UN
1 11/16-12 OR 1.688-12	UN
1 11/16-16 OR 1.688-16	UN
1 11/16-18 OR 1.688-18	UNEF
1 11/16-20 OR 1.688-20	UN
1 3/4-5 OR 1.750-5	UNC
1 3/4-6 OR 1.750-6	UN
1 3/4-8 OR 1.750-8	UN
1 3/4-10 OR 1.750-10	UNS
1 3/4-12 OR 1.750-12	UN
1 3/4-14 OR 1.750-14	UNS
1 3/4-16 OR 1.750-16	UN
1 3/4-20 OR 1.750-20	UN

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1 13/16-6 OR 1.812-6	UN
1 13/16-8 OR 1.812-8	UN
1 13/16-12 OR 1.812-12	UN
1 13/16-16 OR 1.812-16	UN
1 13/16-20 OR 1.812-20	UN
1 7/8-6 OR 1.875-6	UN
1 7/8-8 OR 1.875-8	UN
1 7/8-10 OR 1.875-10	UNS
1 7/8-12 OR 1.875-12	UN
1 7/8-14 OR 1.875-14	UNS
1 7/8-16 OR 1.875-16	UN
1 7/8-18 OR 1.875-18	UNS
1 7/8-20 OR 1.875-20	UN
1 15/16-6 OR 1.938-6	UN
1 15/16-8 OR 1.938-8	UN
1 15/16-12 OR 1.938-12	UN
1 15/16-16 OR 1.938-16	UN
1 15/16-20 OR 1.938-20	UN
2-4 1/2 OR 2.000-4.5	UNC
2-6 OR 2.000-6	UN
2-8 OR 2.000-8	UN
2-10 OR 2.000-10	UN
2-12 OR 2.000-12	UN
2-14 OR 2.000-14	UNS
2-16 OR 2.000-16	UN
2-18 OR 2.000-18	UNS
2-20 OR 2.000-20	UN
2 1/16-16 OR 2.062-16	UNS
2 1/8-6 OR 2.125-6	UN
2 1/8-8 OR 2.125-8	UN
2 1/8-12 OR 2.125-12	UN
2 1/8-16 OR 2.125-16	UN
2 1/8-20 OR 2.125-20	UN
2 3/16-16 OR 2.188-16	UNS
2 1/4-4 1/2 OR 2.250-4.5	UNC
2 1/4-6 OR 2.250-6	UN
2 1/4-8 OR 2.250-8	UN
2 1/4-10 OR 2.250-10	UNS
2 1/4-12 OR 2.250-12	UN
2 1/4-14 OR 2.250-14	UN
2 1/4-16 OR 2.250-16	UN
2 1/4-18 OR 2.250-18	UNS
2 1/4-20 OR 2.250-20	UN
2 5/16-16 OR 2.312-16	UNS
2 3/8-6 OR 2.375-6	UN
2 3/8-8 OR 2.375-8	UN

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2 3/8-12 OR 2.375-12	UN
2 3/8-16 OR 2.375-16	UN
2 3/8-20 OR 2.375-20	UN
2 7/16-16 OR 2.438-16	UNS
2 1/2-4 OR 2.500-4	UNC
2 1/2-6 OR 2.500-6	UN
2 1/2-8 OR 2.500-8	UN
2 1/2-10 OR 2.500-10	UNS
2 1/2-12 OR 2.500-12	UN
2 1/2-14 OR 2.500-14	UNS
2 1/2-16 OR 2.500-16	UN
2 1/2-18 OR 2.500-18	UNS
2 1/2-20 OR 2.500-20	UN
2 5/8-6 OR 2.625-6	UN
2 5/8-8 OR 2.625-8	UN
2 5/8-12 OR 2.625-12	UN
2 5/8-16 OR 2.625-16	UN
2 5/8-20 OR 2.625-20	UN
2 3/4-4 OR 2.750-4	UNC
2 3/4-6 OR 2.750-6	UN
2 3/4-8 OR 2.750-8	UN
2 3/4-10 OR 2.750-10	UNS
2 3/4-12 OR 2.750-12	UN
2 3/4-14 OR 2.750-14	UNS
2 3/4-16 OR 2.750-16	UN
2 3/4-18 OR 2.750-18	UNS
2 3/4-20 OR 2.750-20	UN
2 7/8-6 OR 2.875-6	UN
2 7/8-8 OR 2.875-8	UN
2 7/8-12 OR 2.875-12	UN
2 7/8-16 OR 2.875-16	UN
2 7/8-20 OR 2.875-20	UN
3-4 OR 3.000-4	UNC
3-6 OR 3.000-6	UN
3-8 OR 3.000-8	UN
3-10 OR 3.000-10	UNS
3-12 OR 3.000-12	UN
3-14 OR 3.000-14	UNS
3-16 OR 3.000-16	UN
3-18 OR 3.000-18	UNS
3-20 OR 3.000-20	UN
3 1/8-6 OR 3.125-6	UN
3 1/8-8 OR 3.125-8	UN
3 1/8-12 OR 3.125-12	UN
3 1/8-16 OR 3.125-16	UN
3 1/4-4 OR 3.250-4	UNC

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3 1/4-6 OR 3.250-6	UN
3 1/4-8 OR 3.250-8	UN
3 1/4-10 OR 3.250-10	UNS
3 1/4-12 OR 3.250-12	UN
3 1/4-14 OR 3.250-14	UNS
3 1/4-16 OR 3.250-16	UN
3 1/4-18 OR 3.250-18	UNS
3 3/8-6 OR 3.375-6	UN
3 3/8-8 OR 3.375-8	UN
3 3/8-12 OR 3.375-12	UN
3 3/8-16 OR 3.375-16	UN
3 1/2-4 OR 3.500-4	UNC
3 1/2-6 OR 3.500-6	UN
3 1/2-8 OR 3.500-8	UN
3 1/2-10 OR 3.500-10	UNS
3 1/2-12 OR 3.500-12	UN
3 1/2-14 OR 3.500-14	UNS
3 1/2-16 OR 3.500-16	UN
3 1/2-18 OR 3.500-18	UNS
3 5/8-6 OR 3.625-6	UN
3 5/8-8 OR 3.625-8	UN
3 5/8-12 OR 3.625-12	UN
3 5/8-16 OR 3.625-16	UN
3 3/4-4 OR 3.750-4	UNC
3 3/4-6 OR 3.750-6	UN
3 3/4-8 OR 3.750-8	UN
3 3/4-10 OR 3.750-10	UNS
3 3/4-12 OR 3.750-12	UN
3 3/4-14 OR 3.750-14	UNS
3 3/4-16 OR 3.750-16	UN
3 3/4-18 OR 3.750-18	UNS
3 7/8-6 OR 3.875-6	UN
3 7/8-8 OR 3.875-8	UN
3 7/8-12 OR 3.875-12	UN
3 7/8-16 OR 3.875-16	UN
4-4 OR 4.000-4	UNC
4-6 OR 4.000-6	UN
4-8 OR 4.000-8	UN
4-10 OR 4.000-10	UNS
4-12 OR 4.000-12	UN
4-14 OR 4.000-14	UNS
4-16 OR 4.000-16	UN
4 1/8-4 OR 4.125-4	UN
4 1/8-12 OR 4.125-12	UN
4 1/8-16 OR 4.125-16	UN
4 1/4-4 OR 4.250-4	UN

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4 1/4-6 OR 4.250-6	UN
4 1/4-10 OR 4.250-10	UNS
4 1/4-12 OR 4.250-12	UN
4 1/4-14 OR 4.250-14	UNS
4 1/4-16 OR 4.250-16	UN
4 3/8-6 OR 4.375-6	UN
4 3/8-12 OR 4.375-12	UN
4 3/8-16 OR 4.375-16	UN
4 1/2-4 OR 4.500-4	UN
4 1/2-6 OR 4.500-6	UN
4 1/2-10 OR 4.500-10	UNS
4 1/2-12 OR 4.500-12	UN
4 1/2-14 OR 4.500-14	UNS
4 1/2-16 OR 4.500-16	UN
4 5/8-6 OR 4.625-6	UN
4 5/8-12 OR 4.625-12	UN
4 5/8-16 OR 4.625-16	UN
4 3/4-4 OR 4.750-4	UN
4 3/4-6 OR 4.750-6	UN
4 3/4-10 OR 4.750-10	UNS
4 3/4-12 OR 4.750-12	UN
4 3/4-14 OR 4.750-14	UNS
4 3/4-16 OR 4.750-16	UN
4 7/8-6 OR 4.875-6	UN
4 7/8-12 OR 4.875-12	UN
4 7/8-16 OR 4.875-16	UN
5-4 OR 5.000-4	UN
5-8 OR 5.000-8	UN
5-10 OR 5.000-10	UNS
5-12 OR 5.000-12	UN
5-14 OR 5.000-14	UNS
5-16 OR 5.000-16	UN
5 1/8-12 OR 5.125-12	UN
5 1/8-16 OR 5.125-16	UN
5 1/4-4 OR 5.250-4	UN
5 1/4-10 OR 5.250-10	UNS
5 1/4-12 OR 5.250-12	UN
5 1/4-14 OR 5.250-14	UNS
5 1/4-16 OR 5.250-16	UN
5 3/8-12 OR 5.375-12	UN
5 3/8-16 OR 5.375-16	UN
5 1/2-4 OR 5.500-4	UN
5 1/2-10 OR 5.500-10	UNS
5 1/2-12 OR 5.500-12	UN
5 1/2-14 OR 5.500-14	UNS
5 1/2-16 OR 5.500-16	UN

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5 5/8-12 OR 5.625-12	UN
5 3/4-4 OR 5.750-4	UN
5 5/8-16 OR 5.625-16	UN
5 3/4-4 OR 5.750-4	UN
5 3/4-10 OR 5.750-10	UNS
5 3/4-12 OR 5.750-12	UN
5 3/4-14 OR 5.750-14	UNS
5 3/4-16 OR 5.750-16	UN
5 7/8-12 OR 5.875-12	UN
5 7/8-16 OR 5.875-16	UN
6-4 OR 6.000-4	UN
6-10 OR 6.000-10	UNS
6-12 OR 6.000-12	UN
6-14 OR 6.000-14	UNS
6-16 OR 6.000-16	UN

OUNCE TO DECIMAL OF A POUND CONVERSION CHART

<u>OUNCES</u>	<u>POUNDS</u>
1	0.062
2	0.125
3	0.188
4	0.250
5	0.312
6	0.375
7	0.438
8	0.500
9	0.562
10	0.625
11	0.688
12	0.750
13	0.812
14	0.875
15	0.938
16	1.000

FIIG Change List

FIIG Change List, Effective: May 7, 2010.

This change replaced with ISAC or and/or coding.